

## PERSONAL INFORMATIONS

## INDOLEAN (Afloroaei) Liliana - Cerasella



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[researchgate.net/profile/Cerasella Liliana Indolean \(Afloroaei\)](https://researchgate.net/profile/Cerasella_Liliana_Indolean_(Afloroaei))

[https://scholar.google.ro/Cerasella Indolean](https://scholar.google.ro/Cerasella_Indolean)

<https://www.brainmap.ro/LilianaCerasellaIndolean> //UE FISCDI ID (UE ID): U-2100-067V-2921

Sex F | Date of birth 02/10/1967 | Nationality Romanian

## WORK EXPERIENCE

25 february 1995 – present

Babeş-Bolyai University, Mihail Kogălniceanu street, no. 1, Cluj-Napoca, RO-400084, [www.ubbcluj.ro](http://www.ubbcluj.ro)  
Faculty of Chemistry and Chemical Engineering

february 2016-present

**Associate Professor**

2002 - 2016

**Lecturer**

1995-2002

**Assistant Professor**

## MAIN ACTIVITIES

Teaching and research activities in the fields of Chemical Technology, Bioremediation, Environmental Pollution Control and Catalysis  
Teaching courses in Chemical Technology, Petrochemistry, Environmental Pollution Process, Catalysis, Functional Foods, Vegetable Products Processing.  
Laboratory activity with students  
Conducting Bachelor's and Dissertation Theses  
Realization of scientific research grants

## TYPE OF ACTIVITY

Teaching and research

## WORK EXPERIENCE

september 1992- february 1995

Institute of Chemistry « Raluca Ripan », str. Fântânele nr.30, RO-400294 Cluj-Napoca, Romania, [iccr@ubbcluj.ro](mailto:iccr@ubbcluj.ro)  
**Research Assistant**

## MAIN ACTIVITIES

Research in inorganic and bioinorganic chemistry  
Documentation, participation in the research team, writing scientific papers, elaboration of grants.

## TYPE OF ACTIVITY

Research

## EDUCATION AND TRAINING

1994-2002

**PhD in Chemistry/Organic Chemistry**

EQF level 8

„Syntheses of DNA Intercalands with Possible Antitumor Activity”

Babeş-Bolyai University, Mihail Kogălniceanu street, no.1, Faculty of Chemistry and Chemical Engineering, Cluj-Napoca, RO-400084, România

1987–1992

**Bachelor in Chemistry and Physics\***

EQF level 6

Babeş-Bolyai University, Mihail Kogălniceanu street, no.1, Faculty of Chemistry and Chemical Engineering, Cluj-Napoca, RO-400084, România  
 \*including pedagogical module.

## PERSONAL SKILLS

Mother tongue(s) Romanian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	B2	B2	C1
French	C2	C2	B2	B1	C1
German	A1	A1	A1	A1	A1

**Communication skills** ~27 years of experience in University teaching and research  
 Sociable, team spirit, scientific intuition, imagination, good communication skills  
 Able to maintain good and very good relationships with colleagues from the teaching and research staff of the Department (Chemical Engineering) and faculty and, also with the students and masters I work with.

**Organisational / managerial skills** The ability to organize and carry out the research activities, proven by  
 - the research projects in which I participated as team member  
 - the coordination of diploma/bachelor's and dissertation theses.  
 Member of the Board of the Engineering Department – since 2012.  
 Expert-evaluator in the National Evaluation Commission for doctoral and postdoctoral fellowships “Eugen Ionescu” (AUF = University Agency of the Francophonie) – since 2017.

**Job-related skills** The ability to organize and perform activities, e.g. coordinating the supervision of the consumption and storage of the drug precursors (National Antidrug Agency, since 2007) and of the explosive substances (since 2019) from Faculty of Chemistry and Chemical Engineering.

**Computer skills** Good command of Microsoft Office™ tools, specialized software for Chemistry, Spectroscopy  
 Electronic remote communication platforms – Microsoft Teams, Zoom, Skype.

**Driving licence** Driving licence B category

## ADDITIONAL INFORMATION

Publications 48 ICI scientific papers; Hirsch index = 12 ([www.google.com/cscholar](http://www.google.com/cscholar))  
 ISI articles Citations Total Number = 813 (at 2.03.2022) [www.google.com/cscholar](http://www.google.com/cscholar)

48. Burcă, S., **Indolean, C.\***, The water quality of some shallow wells from harghita county (sândominic commune), Romania, *Studia Universitatis Babeş-Bolyai Chemia*, **2021**, LXVI (1), 115-125. DOI:10.24193/subbchem.2021.1.09 (IF=0.447).
47. Săcără, A.M., **Indolean, C.\***, Cristea, M., Mureşan, L., Application of adaptive neuro-fuzzy interference system on biosorption of malachite green using fir (*Abies nordmanniana*) cones biomass, *Chemical Engineering Communications*, **2019**, 206 (10), 1249-1263. DOI:org/10.1080/00986445.2018.1555531 (IF=2.494).
46. Burcă, S., **Indolean, C.\***, Ionic Exchange Studies For Correcting Water Quality Indicators, *Studia Universitatis Babeş-Bolyai Chemia*, **2018**, LXIII (3), 155-170. DOI:10.24193/subbchem.2018.3.12 (IF=0.447).
45. Burcă, S., **Indolean, C.\***, Măicăneanu, A., Malachite green dye adsorption from model aqueous solutions using corn cob activated carbon (CCAC), *Studia Universitatis Babeş-Bolyai Chemia*, **2017**, LXII(4, tome 2), 293-307. DOI:10.24193/subbchem.2017.4.25 (IF=0.447).
44. Burcă, S., **Indolean, C.\***, Măicăneanu, A., Isotherm study of Congo red biosorption equilibrium using fir (*Abies nordmanniana*) sawdust biomass, *Revue Roumaine de Chimie*, **2017**, 62(4-5), 381-389. (IF=0.278).
43. **Indolean C.**, Burcă S., Măicăneanu, A., Adsorptive removal of malachite green from model aqueous solutions by chemically modified waste green tea biomass, *Acta Chimica Slovenica*, **2017**, 64(2), 513-521. DOI: 10.17344/acsi.2017.3271 (IF=1.735).
42. **Indolean, C.**, Măicăneanu, A., V.M. Cristea, Prediction of Cu(II) Biosorption performances on wild mushrooms *Lactarius piperatus* using artificial neural networks (ANN) model, *The Canadian Journal of Chemical Engineering*, **2017**, 95, 615-622; DOI 10.1002/cjce.22703 (IF=2.007).
41. Burcă, S., Măicăneanu, A., **Indolean, C.\***, A green approach: malachite green adsorption onto waste green tea biomass. Isotherm and kinetic studies, *Revue Roumaine de Chimie*, **2016**, 61(6-7), 541-547. (IF=0.278).
40. Săcără, A.-M., **Indolean, C.\***, Mureşan, L., Adsorption, equilibrium and kinetic study of malachite green removal from aqueous solutions using fir (*Abies nordmanniana*) cones biomass, *Studia Universitatis Babeş-Bolyai Chemia*, **2016**, LXI(3), 183-194. (IF=0.447).
39. Njimou, J.R., Măicăneanu A., **Indolean, C.\***, Nansu-Njiki, C.P., Ngameni, E., Removal of Cd (II) from synthetic wastewater by alginate - Ayous wood sawdust (*Triplochiton scleroxylon*) composite material, *Environmental Technology*, **2016**, 37(11), 1369-1381; DOI:10.1080/09593330.2015.1116609. (IF=3.247).
38. Tonk, Sz., Nagy, B., Török, A., **Indolean C.**, Majdik, C., Cd(II), Zn(II) and Cu(II) Bioadsorption on chemically treated waste brewery yeast biomass: the role of functional groups, *Acta Chimica Slovenica*, **2015**, 62(3), 736-746. DOI: 10.17344/acsi.2014.1265. (IF=1.735).
37. Török, A., Buta, E., **Indolean C.**, Tonk, Sz., Silaghi-Dumitrescu, L., Majdik, C., Biological removal of triphenylmethane dyes from aqueous solution by *Lemna minor*, *Acta Chimica Slovenica*, **2015**, 62(2), 452-461. DOI: 10.17344/acsi.2014.1109 (IF=1.735).
36. Burcă, S., **Indolean, C.**, Măicăneanu, A., Groundwater quality in shallow wells from Feleacu Village, Cluj County, Romania, *Studia Universitatis Babeş-Bolyai Chemia*, **2015**, LX(3), 247-255. (IF=0.447).
35. Nagy, B., Mânzatu, C., Török, A., **Indolean C.**, Măicăneanu, A., Tonk, Sz., Majdik, C., Isotherm and thermodynamic studies of Cd(II) removal process using chemically modified lignocellulosic adsorbent, *Revue Roumaine de Chimie*, **2015**, 60(2-3), 257-264. (IF=0.278).
34. Mânzatu, C., Nagy, B., Török, A., **Indolean C.**, Majdik, C., Biosorption of Cd(II) on untreated fir cone powder: kinetic and equilibrium isotherm studies, *Revue Roumaine de Chimie*, **2014**, 59(11-12), 981-988. (IF=0.278).
33. Burcă, S., Măicăneanu, A., **Indolean C.**, Methylene blue (MB) synthetic wastewater decolorization using Roumanian fir tree sawdust. Thermodynamics, kinetics and equilibrium, *Revue Roumaine de Chimie*, **2014**, 59(10), 817-824. (IF=0.278).
32. Nagy, B., Mânzatu, C., Măicăneanu, A., **Indolean, C.**, Barbu-Tudoran, L., Majdik, C., Linear and nonlinear regression analysis for heavy metals removal using *Agaricus bisporus* macrofungus, *Arabian Journal of Chemistry*, **2017**, 10(Supplement 2), S3569-S3579. DOI: <http://dx.doi.org/10.1016/j.arabjc.2014.03.004> (IF=4.92).
31. Nagy, B., Mânzatu, C., Măicăneanu, A., **Indolean, C.**, Silaghi-Dumitrescu L., Majdik C., Effect of alkaline and oxidative treatment on sawdust capacity to remove Cd(II) from aqueous solutions. FTIR and AFM study, *Journal of Wood Chemistry and Technology*, **2014**, 34, 301-311. DOI: 10.1080/02773813.2013.875040 (IF=2.63).
30. Nagy, B., Szilagy, B., Majdik, C., Katona, G., **Indolean, C.**, Măicăneanu, A., Cd (II) and Zn (II) biosorption on *Lactarius piperatus* macrofungus: Equilibrium isotherm and kinetics studies, *Environmental Progress & Sustainable Energy*, **2014**, 33(4), 1158-1170. DOI: 10.1002/ep.11897 (IF=2.33).
29. Nagy, B., Măicăneanu, A., **Indolean, C.**, Mânzatu, C., Silaghi-Dumitrescu, L., **Majdik, C.**, Comparative study of Cd(II) biosorption on cultivated *Agaricus bisporus* and wild *Lactarius piperatus* based biocomposites. Linear and nonlinear equilibrium modelling and kinetics, *Journal of the Taiwan Institute of Chemical Engineering*, **2014**, 45, 921-929. [http:// dx.doi.org/10.1016/j.jtice.2013.08.013](http://dx.doi.org/10.1016/j.jtice.2013.08.013) (IF=5.76).
28. Nagy, B., Măicăneanu, A., **Indolean, C.**, Burca, S., Silaghi-Dumitrescu, L., Majdik C., Cadmium (II) Ions Removal from Aqueous Solutions Using Romanian Untreated fir Tree Sawdust – a Green Biosorbent, *Acta Chimica Slovenica*, **2013**, 60(2), 263-273. (IF=1.735).
27. Burcă, S., Stanca, M., **Indolean C.**, Majdik C., Măicăneanu, A., Fe-Zn-ZVT catalyst used in advanced oxidation processes of organic pollutants from wastewaters, *Revue Roumaine de Chimie*, **2013**, 58(1), 19-26 (IF=0.278).
26. **Indolean, C.**, Burcă, S., Măicăneanu A., Stanca, M., Rădulescu, D., Removal of anionic dye Congo red from synthetic wastewater using immobilised fir sawdust (*Abies alba*), *Studia Universitatis Babeş-Bolyai Chemia*, **2013**, 58(2), 23-24. (IF=0.447).

25. Mbosso Teinkela, J.E., Măicăneanu, A., **Indolean, C.**, Njimou, J.R., Majdik, C., Cd<sup>2+</sup> Removal from aqueous solutions using an organo-inorganic immobilized adsorbent, *Revue Roumaine de Chimie*, **2012**, 57(4-5), 321-325. (IF=0.278).
24. Măicăneanu, A., **Indolean, C.**, Burcă, S., Stanca, M., Bedeleian, H., Majdik, C., Organics Removal from Aqueous Solutions Using Suspended and Immobilized Romanian Bentonites, *Studia Universitatis Babeş-Bolyai Chimia*, **2011**, LVI(1), 81-94. (IF=0.447).
23. Tonk, S., Măicăneanu, A., **Indolean, C.**, Burcă, S., Majdik, C., Application of immobilized waste brewery yeast cells for Cd<sup>2+</sup> removal. Equilibrium and kinetics, *Journal of Serbian Chemical Society*, **2011**, 76(3), 363-373. (IF=1.24).
22. Majdik, C., Burcă, S., **Indolean, C.**, Măicăneanu, A., Stanca, M., Tonk, S., Mezey, P., Suspended and immobilized brewery waste biomass and commercial yeast as biosorbents for Cd(II) removal. A thermodynamic study, *Revue Roumaine de Chimie*, **2010**, 55(11-12), 871-877. (IF=0.278).
21. Tonk, S., **Indolean, C.**, Burcă, S., Măicăneanu, A., Kocsis, B., Majdik, C., Biosorption of Cd<sup>2+</sup> ions by Immobilized Cells of *Saccharomyces Cerevisiae*. Adsorption Equilibrium and Kinetic Studies, *Studia Universitatis Babeş-Bolyai Chimia*, **2010**, LV(3), 129-138. (IF=0.447).
20. Majdik, C., Măicăneanu, A., **Indolean, C.**, Burcă, S., Stanca, M., Phenol contaminated water remediation using commercial immobilized bentonites as adsorbents, *Studia Universitatis Babeş-Bolyai Chimia*, **2010**, LV(I, 2), 115-123. (IF=0.447).
19. Majdik, C., Ould Tfeil, H., Măicăneanu, A., **Indolean, C.**, Burcă, S., Tonk, S., Stanca, M., Fixed bed studies for Cd (II) removal from model solutions using immobilized bentonite/yeast mixtures, *Studia Universitatis Babeş-Bolyai Chimia*, **2009**, LIV, Special issue 2, 153-162. (IF=0.447).
18. Majdik, C., Miclean, M., Roman, C., **Indolean, C.**, Cordoş, E., Chelate – induced phytoextraction of experimentally metal polluted soil, with *Thlaspi Caerulescens*, *Revista de Chimie*, **2009**, 60(5), 533-536. (IF=0.662).
17. **Indolean, C.**, Găină, L., Majdik C., N-Alkylation of acridone by means of microwave irradiations without solvent, *Sudia U. B. B. Chimia*, **2009**, LIII(1), 83 – 88. (IF=0.447).
16. Majdik, C., **Indolean, C.**, Tonk, S., Măicăneanu, A., Perneszi, T., Tothmeresz, B., Removal of Zn<sup>2+</sup> from some synthetic wastewaters by immobilized *Saccharomyces Cerevisiae* cells, *Studia Universitatis Babeş-Bolyai Chimia*, **2008**, LIII(3), 31-36. (IF=0.447).
15. Tonk, Sz., Stanca, M., Majdik, C., **Indolean, C.**, Burcă, S., Perneszi T., Tóthmérés B., Cd<sup>2+</sup> Removal from Synthetic Wastewaters using *Scenedesmus Opoliensis* Green Algae, *Studia U. B. B. Chimia*, **2008**, LIII(3), 31-36. (IF=0.447).
14. Dulămiţă, N., Măicăneanu, A., Sayle, D.C., Stanca, M., Crăciun, R., Olea, M., **Afloroaei, C.**, Fodor, A., Ethylbenzene dehydrogenation on Fe<sub>2</sub>O<sub>3</sub>-Cr<sub>2</sub>O<sub>3</sub>-K<sub>2</sub>CO<sub>3</sub> catalysts promoted with transitional metal oxides, *Applied Catalysis A: General*, **2005**, 287(1), 9-18. (IF=5.706).
13. **Afloroaei, C.**, Vlassa, M., Oprean, I., Mass spectra of bis(2,4-dimethyl-5-amino-benzo[b][1,8]-naphthyridines) and bis(benzo[b][1,8]-naphthyridones) linked by methylene linear chain, *Materiale Plastice*, **2004**, 41(1), 26-28. (IF=0.593).
12. **Afloroaei, C.**, Vlassa, M., Panea, I., New 9-substituted acridine derivatives with potential antitumor activity, *Revista de Chimie*, **2004**, 55(7), 536-538. (IF=0.662).
11. **Afloroaei, C.**, Vlassa, M., Assignments of <sup>1</sup>H and <sup>13</sup>C NMR spectra of benzo[b][1,8]-naphthyridone and of 2,4-dimethyl-5-amino-benzo[b][1,8]-naphthyridine, *Revue Roumaine de Chimie*, **2004**, 49 (5), 415-417. (IF=0.278).
10. Vlassa, M., **Afloroaei, C.**, Synthesis of 1,7-di(2'-aminoethyl)-4,10-dimethyl-1,4,7,10-tetraazacyclododecane, *Heterocyclic Communications*, **2003**, 9(4), 355-358. (IF=1.12).
9. Custelceanu, R., **Afloroaei, C.**, Vlassa, M., Polverejan, M., Formation of extended tapes of cyclic water hexamers in an organic molecular crystal host, *Angewandte Chemie International Edition*, **2000**, 39(17), 3094-3096. (IF=13.53).
8. **Afloroaei, C.**, Dulămiţă, N., Vlassa, M., Barbe, J., Brouant, P., Synthesis of new bis (2,4-dimethyl-5-amino-benzo[b][1,8]-naphthyridines) and bis benzo[b][1,8]naphthyridones) linked with methylene linear chain, *Journal of Heterocyclic Chemistry*, **2000**, 37, 1289-1291. (IF=2.193).
7. Irimie, F.-D., **Afloroaei, C.**, Toşa, M., Paizs, Cs., Bioreduction with Bakers' Yeast of II - deficient heterocyclic aldehydes, *Heterocyclic Communications*, **1999**, 5(1), 253-256. (IF=1.12).
6. **Afloroaei, C.**, Vlassa, M., Becze, A., Brouant, P., Barbe, J., Microwave action on 2-(arylamino)-nicotinic acid derivatives, *Heterocyclic Communications*, **1999**, 5(3), 249-252. (IF=1.12).
5. Vlassa, M., **Afloroaei, C.**, Dulămiţă, N., Barbe, J., Brouant, P., Application of phase transfer catalysis (PTC) in acridine series. VII(1). Synthesis of 9-cyanoacridine derivatives, *Heterocyclic Communications*, **1999**, 5(1), 51-52. (IF=1.12).
4. Irimie, F.-D., Paizs, Cs., Toşa, M.-I., **Afloroaei, C.**, Miclauş, V., Bakers' Yeast – mediated reductions of some nitro-dibenzofurans, *Heterocyclic Communications*, **1997**, 6(3), 549-553. (IF=1.12).
3. Strajescu, M., Jeleriu, S., Lörincz, P., Gabruş, R., **Afloroaei, C.**, Bratianu, C., Molecular nitrogen fixation in systems containing Cr(OH)<sub>2</sub>, Mo(OH)<sub>3</sub>, Ti(OH)<sub>3</sub> and Mg(OH)<sub>2</sub>, *Revue Roumaine de Chimie*, **1997**, 42(5), 379-382. (IF=0.278).
2. Strajescu, M., Jeleriu, S., Lörincz, P., Gabruş, R., **Afloroaei, C.**, The overall kinetic and thermodynamic decomposition reaction of the hydrated magnesium chloride, *Revue Roumaine de Chimie*, **1995**, 40 (11-12), 1159-1164. (IF=0.278).
1. M.Vlassa, I. A. Silberg. **C. Afloroaei**, A new rearrangement of heterocyclic isothiocyanates, *Heterocyclic Communications* **1994**, 1, 55-58. (IF=1.12).

## Publications

## BDI/CNCISIS articles

## The papers recognized in BDI and CNCISIS databases (18)

18. B. Nagy, Sz. Tonk, **C. Indolean**, A. Măicăneanu, C. Majdik, Biosorption of cadmium ions by unmodified, microwave and ultrasound modified brewery and pure strain yeast biomass, *American Journal of Analytical Chemistry*, **2013**, *4*, 63-71.
17. S. Burcă, M. Stanca, **C. Indolean** and A. Măicăneanu, Industrial waste (sawdust) as biosorbents for dyes removal from wastewaters, *Environmental Engineering and Sustainable Development Entrepreneurship, Acta Tech. Napocensis*, **2012**, *1(3)*, 21-27.
16. Tonk, Sz., Majdik, C., **C. Indolean**, Nagy, B., Biosorption and characteristics of residual beer yeast cells from fermentation processes, *Muszaki Szemle, EMT*, **2012**, 11-15.
15. C. Majdik, A. Măicăneanu, **C. Indolean**, S. Burcă, M. Stanca, Cadmium removal from wastewaters using Ca-alginate immobilized bentonite as adsorbent, *Metal Elements in Environment, Medicine and Biology, Proceedings of 9<sup>th</sup> International Symp. Of Romanian Academy*, oct. 16-17, **2009**, Tome VIII, p 1-6.
14. M. Stanca, **C. Afloroaei**, N. Dulămiță, A. Măicăneanu, Synthetic ionic exchangers in depollution processes, *Analele Univ. din Oradea*, ISSN 1224-7626, Fascicola Chimie, X, **2003**, 154-159.
13. M. Stanca, S. Burcă, A. Măicăneanu, **C. Afloroaei**, N. Dulămiță, Catalytic filtration and ionic exchange as techniques in wastewater treatment, *Analele Univ. din Oradea*, ISSN 1224-7626, Fascicola Chimie, X, **2003**, 33-39.
12. Vlassa, **C. Afloroaei**, Application of phase transfer catalysis (PTC) without solvent in organic synthesis.V(1). Selective N-alkylation of 1,2-di-(9-acridyl)hydrazine, *Acta Universitatis Cibiniensis*, **2002**, Seria F Chemia 5, 51-54.
11. **C. Afloroaei**, M. Vlassa, An improved synthesis of 1,7-dioxo-4,10-diazacyclododecane, *Studia U. B. B. Chemia*, XLVII, **2002**, 1-2, 51-53.
10. **C. Afloroaei**, M. Vlassa, Application of phase transfer catalysis in acridine series.VIII. Synthesis of 9-(1,2,3-triazol-1-yl)acridines, *Sudia U. B. B. Chemia*, XLVII, **2002**, 1-2, 55-59.
9. F.-D. Irimie, Cs. Paizs, V. Miclăuș, **C. Afloroaei**, M. Toșa, G. Damian, Mass Spectrometry of some new 5 hydroximethyl-furylbenzothiazoles obtained through cells catalysis, *Proceedings suppl. of Balkan Physics Letters*, **1997**, *5*, 277-280.
8. V. Miclăuș, G. Damian, E. Făgărășan, G. Câmpan, S. Stamate, Cs. Paizs, **C. Afloroaei**, Spectroscopic studies of 2-amino-3-cyano-4,5-diphenylfurane derivatives, *Proceedings suppl. of Balkan Physics Letters*, **1997**, *5*, 281-284.
7. C. Ghiață, M. Diță, R. Gabruș, C. Roșca, O. Crucin, M. Străjescu, P. Lorincz, S. Jeleriu, **C. Afloroaei**, Metode de separare și dozare a Rh(III) și Ga(III), *A XXII-a Sesiune de Comunicări Științifice*, Rm. Vâlcea, **1996**, vol. lucrărilor, 96-104.
6. R. Gabruș, M. Străjescu, P. Lorincz, S. Jeleriu, **C. Afloroaei**, Fixarea azotului molecular în sisteme conținând Cr(III), Mo(IV), Ti(III), și Mg(II), *A XXI-a Sesiune de Comunicări Științifice*, Rm. Vâlcea, **1995**, vol. II, 406-411.
5. M. Vlassa, M. Cenan, **C. Afloroaei**, Alkylation of phenothiazines using solid-liquid PTC without solvent, *Sudia U. B. B. Chemia*, **1994**, *39*, 83-84.
4. M. Străjescu, R. Gabruș, **C. Afloroaei**, Asupra posibilității de fixare a N<sub>2</sub> și O<sub>2</sub> în câteva combinații complexe ale ionilor Ti(III), Cu(II), Cr(III), Co(II), V(II), Fe(II) și Mo(IV) cu liganzi organici, *A XX-a Sesiune de Comunicări Științifice*, Rm. Vâlcea, **1994**, vol. lucrărilor, 315-321.
3. R. Gabruș, **C. Afloroaei**, P. Lorincz, Stanca Jeleriu, S. Jeleriu, M. Strajescu, Sinteza unor combinații complexe ale ionilor Cu(II), Co(II), Fe(II), Mo(IV), V(II) cu pirocatechina, *Lucrările Conf. Naționale de Chimie și Ing. Chim.*, București, **1993**, *vol. I*, 59-66.
2. **C. Afloroaei**, R. Gabruș, P. Lorincz, S. Jeleriu, M. Strajescu, Sinteza unor combinații complexe ale ionilor Cu(II), Co(II), Cr(III), V(IV) cu acridina, *Lucrările Conf. Naționale de Chimie și Ing. Chim.*, București, **1993**, *vol. I*, 67-71.
1. R. Gabruș, P. Lorincz, S. Jeleriu, M. Străjescu, **C. Afloroaei**, Noi combinații coordinative pentru separarea oxigenului din aer, *Simpozionul Internațional de Ingineria Proceselor Chimice*, Piatra Neamț, **1993**, vol. lucrărilor, 62-64.

## Books and book chapters

1. M. Stanca, A. Măicăneanu, **C. Indolean**, *Caracterizarea, valorificarea și regenerarea principalelor materii prime din industria chimică și petrochimică*, Presa Universitară Clujeană, ISBN (10) 973-610-502-4, **2007**, 239 pag.
2. Burcă, S., Măicăneanu, A., **Indolean, C.**, Stanca, M., *Tehnologie chimică organică. Tehnologii de depoluare a mediului. Aplicații de laborator.*, Presa Universitară Clujeană, **2013**, 248 pag.
3. **C. Indolean**, *Sinteze de intercalanți în ADN cu posibilă activitate antitumorală*, Presa Universitară Clujeană, ISBN 978-973-595-608-0, **2013**, 240 pag.
4. D. Rădulescu, P. Mitrea, P. Pruteanu, A. Pârv, A. Crișan, L.M. Rădulescu, E. Buzdugan, L. Stoicescu, N. Todor, T.E. Ciuleanu, D.A. Iluțiu-Varvara, **C. Indolean**, *Potențialul cardiotoxic al citostaticelor*, Ed. Risoprint, ISBN 978-973-53-1055-4, **2013**, 112 pag. (book chapter).

## Grants

## Member of Research grants (5 national, 2 international)

1. **ÚJ TIPUSÚ BIOSZORBENSEK ALKALMAZÁSA A VÍZTISZTÍTÁSBAN** (Studierea și analiza unor noi biosorbenți), 2008/B/16/CS (Proiect finanțat de Magyar Tudományos Akadémia – MTA, Hungary); membru în echipa de cercetare; director: Dr. Majdik Cornelia. (2008-2009)

2. **A FITÓEXTRAKCIÓ, MINT ALTERNATÍV LEHETŐSÉG A NEHÉZFÉMEKSEL SZENNYEZETT TALAJOK REHABILITÁCIÓJÁBAN** (Fitoextracția ca posibilitate alternativă de remediere a solurilor poluate cu metale grele) 2009/C/00108/CS (Proiect finantat de Magyar Tudományos Akadémia – MTA, Hungary) – membru în echipa de cercetare; director: Dr. Majdik Cornelia. (2009-2010)
3. **BIOREMEDIEREA APELOR INDUSTRIALE CU CONTINUT DE COMPUSI FENOLICI**, Grant CNCNIS - PNCDI – II; membru în echipa de cercetare, director: Dr. Majdik Cornelia (2008-2010).
4. **MATERIALE AVANSATE DE STOCARE A HIDROGENULUI PENTRU A LIMENTAREA PILELOR DE COMBUSTIE**, Grant CEEEX nr. 707/24.07.2006, membru în echipa de cercetare, director: Dr. Dan LUPU. (2006-2008)
5. **AUTOASAMBLAREA UNOR STRUCTURI CU ARHITECTURĂ CONTROLATĂ FOLOSIND CA UNITĂȚI DE CONSTRUCȚIE COMPLEXE AI BOROHIDRURII CU DIVERȘI AZAETERI COROANĂ** Grant CNCNIS 360 / 2004; membru în echipa de cercetare; director: M. VLASSA (2004-2006).
6. **STUDII PRIVIND ASAMBLAREA TOPOCHIMICĂ A UNOR MATERIALE COVALENTE FOLOSIND LEGĂTURA DE DIHIDROGEN**, Grant CERES 54 / 13.11.2002; membru în echipa de cercetare, director: M. VLASSA (2002-2004).
7. **SINTEZE DE INTERCALANZI ÎN ADN** Grant CNCNIS 70 32575 / 1999; membru în echipa de cercetare; director: M. VLASSA (1999-2001)

**Member in Professional Associations** Chemical Society – România  
Catalysis Society – România

**Editorial activity - reviewer** Journal of Cleaner Production  
Journal of Hazardous Materials  
Arabian Journal of Chemistry  
Chemosphere  
Adsorption Science and Technology  
Bioprocess and Biosystems Engineering  
Journal of Dispersion Science and Technology  
Clean Soil Air Water  
Desalination and Water Treatment  
International Journal of Biological Macromolecules  
Open Chemistry  
Studia Universitatis Babes-Bolyai Chemia, etc.

**Research trainings/internships** Michigan State University (East Lansing, Michigan, USA) (visiting research, 1999, 3 months)  
Michigan State University (East Lansing, Michigan, USA) (visiting research, 2000, 5 months)  
3 – 9 mai 1999 - Participation in the International Seminar - An introductory course on Magnetic Resonance Imaging (MRI) and Magnetic Resonance Spectroscopy (MRS) Prof. Dr. Gheorghe D.Mateescu, Neptun - Romania

**Research fields** Environmental Pollution Control (Removal of Environmental Pollutants).  
Use and characterization of residual natural materials in Environmental Depollution  
Green Depollutions Methods  
Bioremediation  
Fitoremediation  
Heterogenous Catalysis, Heterocyclic Compounds Chemistry, Organic Synthesis

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