

PERSONAL INFORMATION

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Gender: Male | **Citizenship:** Romanian

Csaba Levente NAGY
WORK EXPERIENCE

- October 2014 – present** **Lecturer**
 Babeş-Bolyai University, Faculty of Chemistry and Chemical Engineering
 ▪ higher education
- October 2007 – 2014** **Research Assistant**
 Babeş-Bolyai University, Faculty of Chemistry and Chemical Engineering
 ▪ Scientific research activity
- October 2009 – September 2012** **Postdoctoral research**
 Babeş-Bolyai University, Faculty of Chemistry and Chemical Engineering
 ▪ Scientific research activity

EDUCATION AND TRAINING

- 2002 – 2007** **Postgraduate studies in applied computer science and programming**
 Technical University of Cluj-Napoca
- 2002 – 2007** **PhD in Chemistry**
 Babeş-Bolyai University, Faculty of Chemistry and Chemical Engineering
- 2001 – 2002** **Master of Science in Advanced Organic Chemistry**
 Babeş-Bolyai University, Faculty of Chemistry and Chemical Engineering
- 1997 – 2001** **Bachelor of Science in Chemistry**
 Babeş-Bolyai University, Faculty of Chemistry and Chemical Engineering
- 1993 – 1997** **Baccalaureate Degree / High school diploma**
 „Andrei Mureşanu” National College – Dej

PERSONAL SKILLS AND COMPETENCES

Mother tongue(s) Hungarian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
French	B1	B1	B1	B1	B1

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
 Common European Framework of Reference for Languages

- Communication skills**
Organisational / managerial skills
- supervision of research work
 - Organization of scientific events (workshop, conference)
 - Project management
- Research**
- Chemistry of carbon nanostructures, computational chemistry, molecular topology
 - High symmetry multiterminale nanotube junctions, onion fullerenes, hetero fullerenes
 - Aromaticity descriptors
- Computer skills**
- operating systems: Windows (XP, 7, 10), Linux
 - Microsoft Office Suite, Origin, EndNote
 - quantum chemical programs : Gaussian, Gamess, Mopac, HyperChem
 - others: MatLab, Mathematica, SolidEdge
 - programming in C#, JAVA, PHP, HTML, CSS, MySQL
- Teaching**
- CLM2014 – Computer assisted technical drawing
 - CLM2044 – Applied computer programming in engineering
 - CLM2034 – Signals and systems

ADDITIONAL INFORMATION

- Research stages**
- 2012 – National Institute of Chemistry Ljubljana, Slovenia
2013 – workshop: Topological methods in crystal chemistry and materials science, CECAM-HQ-EPFL, Lausanne
2014 – University of Szeged, Department of Chemical Informatics, Hungary (Domus scholarship)
- Identifiers**
- | | |
|---------------|---------------------|
| Researcher ID | G-3594-2011 |
| Scopus ID | 7003677314 |
| ORCID | 0000-0002-6356-6349 |
- Publications**
- 20 articles published in ISI journals
 - author of 6 book chapters published by international publisher (Springer)
 - 1 book published by an international publisher (Springer) co-editor
 - 1 book published by an international publisher (Springer), co-author
- Projects**
- Member in 11 national research projects
Member in 2 European research projects
1 project director
- Conferences**
- Participated at 23 international conferences: 9 oral lectures, 1 invited lecture
- Awards**
- 2013 - The Academic Committee of the Hungarian Academy of Cluj - József Teleki Young Scientist Award in the field of natural sciences
- Memberships**
- Hungarian Academy of Sciences – external member since 2013
European Society of Mathematical Chemistry (since 2008)

ANNEXES

A1. Books

1. Diudea MV, Nagy CL (editors) (2013) Diamond and related nanostructures. Carbon Materials: Chemistry and Physics, vol. 6. Springer, Dordrecht. ISBN: 978-94-007-6370-8 DOI: [10.1007/978-94-007-6371-5](https://doi.org/10.1007/978-94-007-6371-5) <http://www.worldcat.org/oclc/847617711>
2. Diudea MV, Nagy CL (2007) Periodic Nanostructures. Developments in Fullerene Science, vol. 7. Springer, Dordrecht. ISBN: 978-1-4020-6019-9 DOI: [10.1007/978-1-4020-6020-5](https://doi.org/10.1007/978-1-4020-6020-5) <http://www.worldcat.org/oclc/191450930>

A2. Book chapters

1. Nagy CL, Nagy K, Diudea MV (2016) Tetrahedral nanoclusters. In: Ashrafi AR, Diudea MV (eds) *Distances, symmetry and topology in carbon nanomaterials*. Carbon Materials: Chemistry and Physics, Vol. 9. Springer, Dordrecht. pp. 409–421. ISBN: 978-3-319-31582-9 DOI: [10.1007/978-3-319-31584-3_22](https://doi.org/10.1007/978-3-319-31584-3_22)
2. Diudea MV, Szeffer B, Nagy CL, Bende A (2015) *Exotic allotropes of carbon*. In: Putz MV, Ori O (eds) *Exotic properties of carbon nanomatter*. Carbon Materials: Chemistry and Physics, vol. 8. Springer, Dordrecht. pp 185–202. ISBN: 978-94-017-9567-8 DOI: [10.1007/978-94-017-9567-8_8](https://doi.org/10.1007/978-94-017-9567-8_8)
3. Nagy K, Nagy CL (2013) *Hypergraphene from armchair nanotube Y junctions*. in: Diudea MV, Nagy CL (eds) *Diamond and related nanostructures*. Carbon Materials: Chemistry and Physics, vol. 6. Springer, Dordrecht. pp 207–227. ISBN: 978-94-007-6370-8 DOI: [10.1007/978-94-007-6371-5_11](https://doi.org/10.1007/978-94-007-6371-5_11) <http://www.worldcat.org/oclc/847617711>
4. Nagy CL, Diudea MV (2013) *Diamond D₅*. in: Diudea MV, Nagy CL (eds) *Diamond and related nanostructures*. Carbon Materials: Chemistry and Physics, vol. 6. Springer, Dordrecht. pp 91–105. ISBN: 978-94-007-6370-8 DOI: [10.1007/978-94-007-6371-5_5](https://doi.org/10.1007/978-94-007-6371-5_5) <http://www.worldcat.org/oclc/847617711>
5. Diudea MV, Nagy CL, Ilić A (2011) *Diamond D₅, a novel class of carbon allotropes*. in: Putz MV (ed) *Carbon Bonding and Structures*. Carbon Materials: Chemistry and Physics, vol. 5, Springer, Dordrecht. pp 273–289. ISBN: 978-94-007-1732-9 DOI: [10.1007/978-94-007-1733-6_11](https://doi.org/10.1007/978-94-007-1733-6_11) <http://www.worldcat.org/oclc/756041214>
6. Nagy CL, Diudea MV, Balaban TS (2005) *Reaction pathways in the coalescence of fullerenes*. in: Diudea MV (ed) *Nanostructures – Novel Architecture*. Nova Science Publishers Inc., New York. pp 25–60. ISBN: 1-59454-499-9 <http://www.worldcat.org/oclc/59755993>
7. Diudea MV, Nagy CL, Graovac A (2005) *Periodic finite nanostructures*. in: Diudea MV (ed) *Nanostructures – Novel Architecture*. Nova Science Publishers Inc., New York. pp 61–84. ISBN: 1-59454-499-9 <http://www.worldcat.org/oclc/59755993>
8. Nagy CL, Diudea MV (2005) *Nanoporous carbon structures*. in: Diudea MV (ed) *Nanostructures – Novel Architecture*. Nova Science Publishers Inc., New York. pp 311–334. ISBN: 1-59454-499-9 <http://www.worldcat.org/oclc/59755993>

A3. Articles published in ISI journal

1. Exploring the substrate scope of ferulic acid decarboxylase (FDC1) from *Saccharomyces cerevisiae*
Nagy E.Z.A., Nagy C.L., Filip A., Nagy K., Gál E., Tóth R., Poppe L., Paizs C., Bencze L.C.
Scientific reports (2019) 9(1): 647
DOI: [10.1038/s41598-018-36977-x](https://doi.org/10.1038/s41598-018-36977-x)
2. Rhombellane space filling
Diudea M.V., Nagy C.L.
Journal of Mathematical Chemistry (2019) 57(2): 473-483
DOI: [10.1007/s10910-018-0959-5](https://doi.org/10.1007/s10910-018-0959-5)
3. Cube-rhombellane related structures: A drug perspective
Diudea M.V., Lungu C.N., Nagy C.L.
Molecules (2018) 23(10): 473-483
DOI: [10.3390/molecules23102533](https://doi.org/10.3390/molecules23102533)
4. Ring signature index
Nagy C.L., Diudea M.V.
Match-Communications in Mathematical and in Computer Chemistry (2017) 77(2): 479-492
LINK: <http://match.pmf.kg.ac.rs/content/77n2.htm>
5. Theoretical investigation of symmetrical three-terminal junctions
Nagy K., Nagy C.L., Diudea M.V.
Studia Universitatis Babes-Bolyai Chemia (2016) 61(3TOM1): 285-294
6. Carbon multi-shell cages
Diudea M.V., Bende A., Nagy C.L.
Physical Chemistry Chemical Physics (2014) 16(11): 5260-5269
DOI: [10.1039/c3cp55309d](https://doi.org/10.1039/c3cp55309d)
7. Hyper-diamonds and dodecahedral architectures by tetrapodal carbon nanotube junctions
Nagy K., Nagy C.L., Tasnadi E., Katona G., Diudea M.V.
Acta Chimica Slovenica (2013) 60(1): 1-4
8. On diamond D₅

- Diudea M.V., Nagy C.L., Bende A.
Structural Chemistry (2012) 23(4): 981-986
DOI: [10.1007/s11224-012-0040-0](https://doi.org/10.1007/s11224-012-0040-0)
9. C20-related structures: Diamond D 5
Diudea M.V., Nagy C.L.
Diamond and Related Materials (2012) 23: 105-108
DOI: [10.1016/j.diamond.2012.01.001](https://doi.org/10.1016/j.diamond.2012.01.001)
 10. Omega polynomial in puzzle zeolites
Diudea M.V., Nagy K., Nagy C.L., Ilić A.
Match-Communications in Mathematical and in Computer Chemistry (2011) 65(1): 143-152
LINK: <http://match.pmf.kg.ac.rs/content65n1.htm>
 11. Omega and Sadhana polynomials of dendrimers designed from tetrapodal graphitic junctions
Nagy K., Nagy C.L., Diudea M.V.
Match-Communications in Mathematical and in Computer Chemistry (2011) 65(1): 163-172
LINK: <http://match.pmf.kg.ac.rs/content65n1.htm>
 12. Cluj and related polynomials in tori
Diudea M.V., Nagy C.L., Žigert P., Klavžar S.
Studia Universitatis Babes-Bolyai Chemia (2010) 65(4): 113-123
 13. Omega polynomial in diamond-like dendrimers
Nagy K., Nagy C.L., Diudea M.V.
Studia Universitatis Babes-Bolyai Chemia (2010) 1: 77-82
 14. Armchair [3,3] carbon nanotube junctions with tetrahedral symmetry
Nagy K., Nagy C.L., Katona G., Diudea M.V.
Fullerenes Nanotubes and Carbon Nanostructures (2010) 18(3): 216-223
DOI: [10.1080/15363831003782924](https://doi.org/10.1080/15363831003782924)
 15. Circulene covered fullerenes
Diudea M.V., Vizitiu A.E., Beu T., Bende A., Nagy C.L., Janežič D.
Journal of Molecular Structure: THEOCHEM (2009) 904(1-3): 28-34
DOI: [10.1016/j.theochem.2009.02.024](https://doi.org/10.1016/j.theochem.2009.02.024)
 16. Elongated tori from armchair DWNT
Nagy C.L., Nagy K., Diudea M.V.
Journal of Mathematical Chemistry (2009) 45(2): 452-459
DOI: [10.1007/s10910-008-9418-z](https://doi.org/10.1007/s10910-008-9418-z)
 17. Double toroids as model systems for carbon nanotube junctions: Through-bond currents
Lijnen E., Ceulemans A., Diudea M.V., Nagy C.L.
Journal of Mathematical Chemistry (2009) 45(2): 417-430
DOI: [10.1007/s10910-008-9415-2](https://doi.org/10.1007/s10910-008-9415-2)
 18. Tubercular fulleroids
Vizitiu A.E., Nagy C.L., Stefu M., Katona G., Diudea M.V., Parv B., Vukičević D.
Journal of Mathematical Chemistry (2009) 45(2): 513-524
DOI: [10.1007/s10910-008-9424-1](https://doi.org/10.1007/s10910-008-9424-1)
 19. Extension of Euler formula in multi-shell polyhedra
Diudea M.V., Nagy C.L.
Match-Communications in Mathematical and in Computer Chemistry (2008) 60(3): 835-844
LINK: <http://match.pmf.kg.ac.rs/content60n3.htm>
 20. Spectroscopic and atomic force microscopy study of a new hemicyanine dye
Panea I., Tomoaia-Cotisel M., Horovitz O., Gaspar C.L., Mocanu A., Nagy C.L.
Studia Universitatis Babes-Bolyai Chemia (2007) 60(3): 835-844
 21. Periodic cages
Diudea M.V., Nagy C.L., Silaghi-Dumitrescu I., Graovac A., Janežič D., Vikić-Topić D.
Journal of Chemical Information and Modeling (2005) 52(3): 79-86
DOI: [10.1021/ci049738g](https://doi.org/10.1021/ci049738g)
 22. C70 dimers - Energetics and topology
Nagy C.L., Stefu M., Diudea M.V., Dress A., Müller A.
Croatia Chemica Acta (2004) 77(3): 457-464
 23. C60 dimers revisited
Diudea M.V., Nagy C.L., Ursu O., Balaban T.S.
Fullerenes Nanotubes and Carbon Nanostructures (2003) 11(3): 245-255
DOI: [10.1081/FST-120024043](https://doi.org/10.1081/FST-120024043)