

**Name** SZILÁRD VARGA  
**Date of birth** 13. 05. 1983  
**E-mail address** varga.szilard@ttk.hu  
**ORCID** 0000-0001-9611-5168

### Workplace and position

Organocatalysis Research Group  
Institute of Organic Chemistry,  
Research Centre for Natural Sciences

- 01. 03. 2019 – 31. 10. 2019 Scientific Secretary of Research Centre for Natural Sciences
- 12. 01. 2012 – Research fellow
- 01. 01. 2017 – Scientific Secretary of Institute of Organic Chemistry
- 09. 2006 – 12. 01. 2012 Junior research fellow

### Education

- 2012 PhD in Chemistry: *summa cum laude*  
Eötvös Loránd University (Budapest)  
(supervisor: Tibor Soós, Structure and Reactivity in Cinchona Base Bifunctional Organocatalysis)
- 2006 MSc with Honours in Chemistry  
Eötvös Loránd University (Budapest)  
(supervisor: Tibor Soós, Synthesis and Study of Bifunctional Cinchona Based Organocatalysts)
- 2001-2010 member of Bolyai College

### Language Skills

Hungarian (native); German (intermediate); English (advanced)

### Grants and scholarships

- Young Researcher Grant – by National Research, Development and Innovation Office-NKFIH, 12. 2021- (Total Synthesis of Next-Generation Analgesic Terpenoids, as a PI, 107760 Euro, 4 years)
- Young Researcher Grant – by National Research, Development and Innovation Office-NKFIH, 09. 2017- (Synthesis of Indole Terpenoids Using Cascade Reactions, as a PI, 128500 Euro, 4 years)
- Research Grant – by National Research, Development and Innovation Office-NKFIH, 09. 2017- (Organo-photoredox Catalysis in Total Synthesis of Terpenoids, as a co-worker)
- Research Grant – by National Research, Development and Innovation Office-NKFIH, 2015-2019 (Development of New Activation Concepts in Catalysis, as a co-worker)
- Bolyai János Research Scholarship, 2014-2017 (Development of Bifunctional Organocatalyst Based on Chiral Oxanion Hole Approach)
- Postdoctoral Research Grant – by Hungarian Science Foundation, 2014-2017 (Organocatalysis in the Synthesis of Indole Alkaloids, PI, 29000 Euro)
- Research Grant – by Hungarian Science Foundation, 2009-2013 (Synthesis of 4-,5-,6-, 7-chloromethyl indoles and Using in Total Synthesis of Ergot Alkaloids)
- Hungarian Republic Scholarship (as a result of achievements at University), 2002-2006
- Prime Minister Scholarship (as a reward for the participation and achievements at the International Chemistry Olympiad) 2001-2002

### Industrial Relation

- 2012-2013 cooperative research on a diversity project of Servier  
(Use of organocascade chemistry for complex structures generation)

## Awards

- Poster Award at 21st European Symposium on Organic Chemistry (ESOC 2019)
- ChemComm Poster Prize at 19th European Symposium on Organic Chemistry (ESOC 2015)
- Young Researcher Award – by Central European V4 Academies of Sciences (Academies of Sciences of the Czech Republic, Hungary, Poland and Slovakia), 2011
- Young Researcher Award – by Hungarian Academy of Sciences, 2011
- Young Researcher Award – by Chemical Research Center of HAS, 2009
- Honourable Mention by Prime Minister (as a vice leader of the Hungarian national chemistry team) 2008-2012, 2014-2017, 2019-2020
- Honourable Mention by the Minister of Education (as a teacher of the Hungarian national chemistry team) 2005
- Pro Bolyai College Award 2004
- Szent-Györgyi Albert silver medal 2001

## Lectures and Posters

Number of posters: 18

Number of lectures at national symposiums: 9

Number of lectures at international symposiums: 2

Selected Lectures:

- *Cascade Based, Concise Synthesis of Aspidospermans* (Varga Sz., Martin G., Angyal P., Egyed O., Holczabuer T., Soós T.) 17<sup>th</sup> Blue Danube Symposium on Heterocyclic Chemistry, Linz, 30. 08. - 02. 09. 2017
- *Selective? Efficient? Divergent? – Questions and Answers Concerning the Total Synthesis of Monoterpene-indole Alkaloids* (Varga Sz.) Lecture series in Bruckner Auditorium, Organic and Biomolecular Committee of Hungarian Academy of Sciences, Budapest, 28. 09. 2018.
- *Total Syntheses of Aspidosperma Alkaloids through Sequences of Cascade Reactions* (Varga Sz., Martin G., Angyal P., Egyed O., Holczabuer T., Soós T.) XXIX European Colloquium on Heterocyclic Chemistry, virtual edition, 26.04.-28.04. 2021

## Selected Publications

- Vakulya, B.; Varga, Sz.; Csámpai, A.; Soós, T.\*; *Highly Enantioselective Conjugate Addition of Nitromethane to Chalcones Using Bifunctional Cinchona Organocatalysts*, Organic Letters, **2005** (7), 1967-1969.  
Number of citations without self-citations: 922  
Impact factor: 4.368
- Vakulya, B.\*; Varga, Sz.; Soós, T.\*; *Epi-Cinchona Based Thiourea Organocatalyst Family as an Efficient Asymmetric Michael Addition Promoter: Enantioselective Conjugate Addition of Nitroalkanes to Chalcones and  $\alpha,\beta$ -Unsaturated N-Acylpyrroles*, Journal of Organic Chemistry **2008** (73), 3475-3480  
Number of citations without self-citations: 143  
Impact factor: 3.952
- Tárkányi, G.\*; Király, P.; Varga, Sz.; Vakulya, B.; Soós, T.: *Edge-to-face CH/ $\pi$  Aromatic Interaction and Molecular Self-recognition in Epi-cinchona Based Bifunctional Thiourea Organocatalysis*, Chemistry A European Journal, **2008** (14), 6078-6086.  
Number of citations without self-citations: 78  
Impact factor: 5.454
- Varga, Sz.; Jakab, G.; Drahos, L.; Holczbauer, T.; Czugler, M.; Soós, T.\*: *Double Diastereocontrol in Bifunctional Thiourea Organocatalysis: Iterative Michael–Michael–Henry Sequence Regulated by the Configuration of Chiral Catalysts*, Organic Letters, **2011** (13), 5416-5419.  
Number of citations without self-citations: 57  
Impact factor: 5.862

- Varga, Sz.; Jakab, G.; Csámpai, A.; Soós, T.\*: *Iterative Coupling of Two Different Enones by Nitromethane Using Bifunctional Thiourea Organocatalysts. Stereocontrolled Assembly of Cyclic and Acyclic Structures*, *Journal of Organic Chemistry*, **2015** (80), 8990-8996.  
Number of citations without self-citations: 8  
Impact factor: 4.785
- Madarász, Á.; Dósa, Zs.; Varga, Sz.\*; Soós, T.; Csámpai, A.; Pápai, I.\*: *Thiourea Derivatives as Bronsted Acid Organocatalysts*, *ACS Catalysis*, **2016** (6), 4379-4387.  
Number of citations without self-citations: 54  
Impact factor: 10.614
- Bacsó, A.; Szigeti, M.; Varga, Sz.; Soós, T.\*: *Bifunctional Thiourea-Catalyzed Stereoablative Retro-Sulfa-Michael Reaction: Concise and Diastereoselective Access to Chiral 2,4-Diarylthietanes*, *Synthesis*, **2017** (49) 429-439.  
Number of citations without self-citations: 5  
Impact factor: 2.722
- Földes, T.; Madarász, Á.; Révész, Á.; Dobi, Z.; Varga, Sz.; Hamza, A.; Nagy, P. R.; Pihko, P. M.; Pápai, I.\*: *Stereocontrol in Diphenylprolinol Silyl Ether Catalyzed Michael Additions: Steric Shielding or Curtin–Hammett Scenario?* *Journal of American Chemical Society*, **2017** (139) 17052-17063.  
Number of citations without self-citations: 20  
Impact factor: 14.357
- Varga, Sz.; Angyal, P.; Martin, G., Egyed, O.; Holczbauer, T.; Soós, T.\*: *Total Syntheses of (-)-Minovincine and (-)-Aspidofractinine through a Sequence of Cascade Reactions* *Angewandte Chemie International Edition*, **2020** (59) 13547-13551.  
Number of citations without self-citations: 8  
Impact factor: 12.959
- Martin, G.; Angyal, P.; Egyed, O.; Varga, Sz.\*; Soós, T.\*: *Total Syntheses of Dihydroindole Aspidosperma Alkaloids: Reductive Interrupted Fischer Indolization Followed by Redox Diversification* *Organic Letters*, **2020** (22) 4675-4679.  
Number of citations without self-citations: 6  
Impact factor: 6.091

#### Scientometric Parameters

- Number of Publications: 13
- Sum of the Number of Citations without Self-citations: 1352
- Sum of impact factor: 79.143
- H-index: 9

#### Teaching Activity and Popular Science

- Supervisor of 4 PhD student, 8 MSc student, 3 BSc student
- Teaching Theoretical Organic Chemistry at the Eötvös Loránd University (2019-)
- Teaching Chemistry of Heterocyclic Compounds at the Eötvös Loránd University (2019-)
- Teaching Organic Chemistry, Separation Techniques and NMR spectroscopy in the Hungarian IChO camps (2004 – )
- Mentor (vice team leader) of the Hungarian team on the International Chemistry Olympiad (IChO, 2007 – 2012, 2012 – 2016, 2018)
- Editor of the Journal of Hungarian Chemistry for Secondary School Students (2007 – 2017)
- Member of Scientific Committee of National Chemistry Competition for Secondary School Students (2006 – )
- Organizer of the Researcher's Night 2019 at the Research Centre for Natural Sciences
- Editor of Landscape of Chemistry (Popular Science Journal) (2010 – 2015)
- Popular science lectures for secondary school students

**Memberships**

- Member of Hungarian Chemical Society, 2012-
- Member of American Chemical Society, 2015-

**Competitions**

2001. 1<sup>st</sup> place, National Chemistry Competition for Secondary School Students

2001. silver medal, International Chemistry Olympiad in Mumbai

Budapest, 24. 11. 2021



Szilárd Varga