

Ognjen Š. Miljanić

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EDUCATION

PhD in Chemistry—University of California, Berkeley 2005
Research Advisor: *K. Peter C. Vollhardt*
Diploma in Chemistry—University of Belgrade (Serbia) 2000

EMPLOYMENT

Professor of Chemistry—University of Houston (UH) 2019–present
Associate Professor of Chemistry—University of Houston 2014–2019
Assistant Professor of Chemistry—University of Houston 2009–2014
Research Assistant Professor of Chemistry—University of Houston 2008–2009
Postdoctoral Associate—University of California, Los Angeles (UCLA) 2005–2008
Research Advisor: *J. Fraser Stoddart (2016 Nobel Laureate in Chemistry)*
Research and Teaching Assistant—University of California, Berkeley 2001–2005

VISITING PROFESSOR APPOINTMENTS

Industrial University of Ho Chi Minh City, Vietnam 2023–present
Ruprecht-Karls-Universität Heidelberg, Germany 2018–2022
New York University Abu Dhabi, United Arab Emirates 2015

HONORS AND AWARDS

Fellow of the Royal Society of Chemistry 2019
Alexander von Humboldt Fellowship for Experienced Researchers 2019–2022
Max Kade Foundation Fellowship, Ruprecht-Karls-Universität Heidelberg 2018
Honorary Membership, Israel Chemical Society 2016
UH John C. Butler Teaching Excellence Award 2014
UH Award for Excellence in Research and Scholarship 2014
Cottrell Scholar Award, Research Corporation for Science Advancement 2013
Featured in *Physics Today* and *Chemical & Engineering News*.
Early Excellence Profile—*Journal of Physical Organic Chemistry* 2013
UH Teaching Excellence Award 2012
NSF CAREER Award 2012
Thieme Chemistry Journal Award 2011
ACS Greater Houston Section Younger Chemist of the Year Award 2010
Postdoctoral Research Excellence Award—UCLA 2008
Graduate Division Travel Award—University of California, Berkeley 2004
Student of the Generation Award—University of Belgrade 2000
DAAD Summer Exchange Fellow—University of Leipzig, Germany 2000
Serbian Academy of Arts and Sciences Fellow 1999–2000
Serbian Government's Foundation for the Development of Science Fellow 1999
Ministry of Education of the Republic of Serbia Fellow 1998

COURSES TAUGHT

CHEM 3331 / CHEM 2323: Fundamentals of Organic Chemistry I www.chem3331.com

- Undergraduate course, offered in Spring 2009, Fall 2009, Fall 2010, Fall 2011, Fall 2012, Fall 2013, Fall 2014, Fall 2015, Fall 2016, Fall 2017, Fall 2018, Fall 2019, Fall 2020, Fall 2021, Fall 2022, and Fall 2023.
- Taken so far by ~3,900 students

ENRG 3310: Introduction to Energy and Sustainability www.enrg3310.com

- Undergraduate course, offered in Fall 2013, Spring 2014, Fall 2014, Spring 2015, Fall 2015, Spring 2016, Fall 2016, Spring 2017, Fall 2017, Spring 2018, Fall 2018, Spring 2019, Fall 2019, Spring 2020, Fall 2020, Spring 2021, Fall 2021, Spring 2022, Fall 2022, and Spring 2023.
- Taken so far by ~1,250 students

CHEM 6353: Physical Organic Chemistry www.chem6353.com

- Chemistry graduate course, offered in Fall 2008, Spring 2010, Spring 2011, Spring 2012, Spring 2014, Spring 2016, Spring 2017, Spring 2018, Spring 2019, Spring 2021, and Spring 2023.
- Taken so far by 188 students.

CHEM 6394: Stereochemistry (Selected Topics in Chemistry) [course link](#)

- Chemistry graduate course, offered in Spring 2020, Spring 2022, and Spring 2024.
- Taken so far by 26 students.

CHEM 4397: Energy Consumption, Production, and Conservation www.chem4397.com

- Advanced undergraduate course, offered in Fall 2010, Fall 2011, and Spring 2013.
- Taken by 22 students, the course later transformed into ENRG 3310.

STUDY ABROAD PROGRAMS

Renewable Energy in Iceland Fall 2017

- One week trip to Iceland, with an unanticipated but energy-related extended stopover in Detroit. Studied the use of geothermal and hydroelectric power to power Iceland 100% from renewable sources. Contrasted this energy picture with that of Texas and the US.
- Taken by 9 students, all of which have taken ENRG 3310 either before or after the trip.
- Ed Bruno—one of the students who participated in the trip—later moved to Reykjavik to get a Master's degree at the Iceland School of Energy.

OPEC of Lithium: Argentina/Chile Spring 2024, planned

- Ten day trip to Argentina and Chile which will be focused on studying how these two countries plan to exploit and regulate their vast mineral wealth in lithium. Lithium is a metal critical to the energy transition as it is essential for lithium-ion batteries and electric vehicles.
- Anticipated enrollment between 12 and 28 students.

TEXTBOOK

Miljanić, O. Š.; Pratt, J. A. [Introduction to Energy and Sustainability](#). Wiley-VCH, Weinheim, 2021. ISBN: 9783527345403, 585 pages.

FUNDING FOR TEACHING INITIATIVES

4. *3D MoChI: Three-Dimensional Printed Models for Chemistry Instruction*
PI: Ognjen Š. Miljanić, 5 other co-PIs
Sponsor: Research Corporation for Science Advancement, Cottrell Scholar Collaborative
Amount: \$25,000 Funding period: 09/01/2014–08/31/2016
3. *New Laboratory Course on Advanced Synthetic Chemistry*
PI: Ognjen Š. Miljanić, co-PIs: Don M. Coltart, Jeremy A. May
Sponsor: QEP Curriculum Development Grant Program
Amount: \$20,000 Funding period: 06/01/2013–05/31/2015
2. *Comparison of Energy Efficiencies of Houston's Residential Subdivisions*
PI: Ognjen Š. Miljanić, co-PI: Stanko R. Branković
Sponsor: QEP Curriculum Development Grant Program
Amount: \$11,250 (\$9,250 to Miljanić) Funding period: 06/01/2010–05/31/2011
1. *CHEM4397: Hybrid Online/Classroom Course on Energy Issues*
Sponsor: Faculty Development Initiative Program A (FDIP A)
Amount: \$3,650 Funding period: 06/01/2010–05/31/2011

TEACHER-SCHOLAR GRANTS

2. *Compartmentalization, Reaction Discovery, and Parallel Synthesis in Self-Sorting Libraries*
Sponsor: Research Corporation for Science Advancement, Cottrell Scholar Award
Amount: \$75,000 Funding period: 06/01/2013–05/31/2016
1. *CAREER: Kinetic Self-Sorting of Dynamic Combinatorial Libraries*
Sponsor: National Science Foundation CHE
Amount: \$600,000 Funding period: 06/01/2012–05/31/2017

TEACHING-RELATED SERVICE ACTIVITIES

Faculty Advisor, Environmental Cougar Organization	2023–present
NSM John Butler Teaching Award Committee	2016–present
Interviewer, Tier One Invitational	2023
Chair, UH Teaching Award Excellence Committee	2021–2023
Esther Farfel Award Selection Committee	2021–2023
NSM Strategic Planning Committee, Undergraduate Education	2021–2022
UH Teaching Award Excellence Committee	2020–2023
UH Children's Learning Center (CLC) Advisory Board	2014–2015
Graduate Research and Scholarship Day, Steering Committee	2014
Faculty in Residence, Cougar Village 1	2014–2017
Advisory Board for the UH Minor in <i>Energy and Sustainability</i>	2013–present
Health Professions Advisory Committee	2013–2016
Faculty Senate, Undergraduate Committee	2013–2016
<i>Friends of NSM</i> Student Award Committee	2013
Department of Chemistry, Graduate Studies Committee	2008–2012
Dept of Chemistry, Faculty Liaison for Student-Coordinated Seminars	2009

DEGREES AWARDED UNDER PROF. MILJANIĆ'S SUPERVISION

Alexandra Robles	PhD, April 2023
Sumitra Karki	PhD, November 2022
Thamon Puangsamlee	PhD, November 2021
Zhenglin Zhang	PhD, August 2020
Corie McHale	PhD, April 2020
Maymounah Alrayyani	PhD, April 2020
Mohamed I. Hashim	PhD, December 2018
Chia-Wei Hsu	PhD, April 2016
Ha T. M. Le	PhD, November 2015
Qing Ji	PhD, August 2015
Rio Carlo Lirag	PhD, August 2015
Teng-Hao Chen	PhD, July 2014
Jaebum Lim	PhD, December 2012
Andrew Eisterhold	MS, November 2019
Xiao Liang	MS, August 2015
Minyoung Jo	MS, June 2013

SUPERVISED CO-WORKERS

Postdoctoral Scholars

Dr. Ashok Kumar	October 2022–present
Dr. Merry K. Smith	December 2014–July 2015
Dr. Ljubodrag V. Vujisić	November 2014–May 2015
Dr. Musabbir A. Saeed	April 2013–April 2014
Dr. Nikola Ž. Knežević	January–October 2010
Dr. Karolina Osowska	March 2009–April 2011

Graduate Students

Jakša Bošković	Fall 2023–present
Thushini Hemachandra	Fall 2022–present
Ashikur Rahman Rabbi	Fall 2022–present
Chuwen Song	Fall 2022–present
Yun-Hsien (James) Lin	Fall 2021–present
Alexandra Robles	Fall 2018–Spring 2023, PhD 2023
Sumitra Karki	Fall 2017–Fall 2022, PhD 2022
Thamon Puangsamlee	Spring 2017–Spring 2022, PhD 2021
Corrie McHale (nee Peterson)	Fall 2015–Fall 2020, PhD 2020
Andrew Eisterhold	Fall 2015–Fall 2019, MS 2019
Zhenglin Zhang	Fall 2015–Spring 2021, PhD 2020
Maymounah Alrayyani	Spring 2015–Fall 2020, PhD 2020
Mohamed Hashim	Fall 2013–Spring 2019, PhD 2018
Xiao Liang	Fall 2012–Summer 2015, MS 2015
Chia-Wei Hsu	Fall 2011–Fall 2016, PhD 2016
Ha T. M. Le	Spring 2011–Spring 2016, PhD 2015
Minyoung Jo	Fall 2010–Summer 2013, MS 2013
Qing Ji	Fall 2010–Summer 2015, PhD 2015
Rio-Carlo Lirag	Fall 2010–Summer 2015, PhD 2015

Teng-Hao Chen
Jaebum Lim

Fall 2009–Fall 2014, PhD 2014
Fall 2008–Fall 2012, PhD 2012

Undergraduate Students

Yao-Ting Wang
Anuwut Petdum
Bradley Engel
Christina Stegemoller
Christina Tillett
Fran Tumaran
Christopher Wong
Juan Ahumada Castillo
Nadia Elhamdi
Andrew Eisterhold
Blessing Adodo
Brenda Gutierrez Ramos
Nghia Bui
Nicholas Eastham
Dušan Kolarski
Jovana Milić
Thao Shirley Nguyen

October–December 2023
August 2019–February 2020
January 2019–March 2020
January 2018–September 2019
January–June 2017
January–June 2017
January–December 2015
January–April 2016
May 2013–May 2015
January–December 2013
May–August 2013
May–July 2012
Spring 2011–Spring 2012
Fall 2009–Fall 2011
July–October 2010
July–October 2010
Fall 2009–Fall 2010

High School Students

Kevin Baltazar
Luis Rodriguez
Dolly Nam
Pritee Tembhekar

July–August 2012, *ACS SEED Scholar*
July–August 2012, *ACS SEED Scholar*
June–July 2011, *Welch Summer Scholar*
June–July 2009, *Welch Summer Scholar*

OPINION PIECES

14. Miljanić, O. Š. [Is Texas Getting Too Hot to Handle?](#) *The Messenger*, June 22, **2023**.
13. Miljanić, O. Š. [Could There Be an ‘OPEC of Lithium’?](#) *GreenBiz*, June 7, **2023**.
12. Miljanić, O. Š. [It’s the Inflation-Climate Change Connection, Stupid.](#) *The Messenger*, May 30, **2023**.
11. Miljanić, O. Š. [What’s Next After the Nuclear Fusion Breakthrough?](#) *The Hill*, December 18, **2022**.
10. Miljanić, O. Š. [America Is the Most Dangerous Place to Give Birth in the Developed World—It’s Only Getting Worse.](#) *The Hill*, September 20, **2022**.
9. Miljanić, O. Š. [Energy Transition, Reloaded.](#) *The Hill*, June 7, **2022**.
8. Miljanić, O. Š. [Should the Biden Administration Be Lowering Gas Prices?](#) *The Hill*, April 5, **2022**.
7. Miljanić, O. Š. [Litijumska dolina ili litijumska kolonija.](#) *NIN*, September 23, **2021** (in Serbian).
6. Miljanić, O. Š. [Democrats and Republicans Will Agree on Climate Change.](#) *The Hill*, July 8, **2021**.
5. Bulhak, Z.; Miljanić, O. Š. [Less Than 10 Percent of Plastic Has Been Recycled. Stop Pretending Otherwise.](#) *Houston Chronicle*, June 5, **2021**.

4. Miljanić, O. Š. [Would Biden's Plan Ever Really Take Away Our Burgers?](#) *The Hill*, April 27, 2021.
3. Miljanić, O. Š. [Banning Natural Gas in Homes Will Increase the Consumption of Natural Gas.](#) *The Hill*, April 2, 2021.
2. Miljanić, O. Š. [COVID Vaccination Should Not End Online Education.](#) *Academe* blog, January 14, 2021.
1. Miljanić, O. Š. [The Bubble That Won't Burst: Subprime Crisis in the US Higher Education.](#) *Academe*, 2018 September–October issue.

MEDIA APPEARANCES

4. [Interview about Water Release from the Fukushima Nuclear Plant.](#) *NewsNation* (TV), August 25, 2023.
3. [UH Moment: Unlocking the Power of Molecular Crystals as a Possible Solution to Nuclear Waste.](#) *Houston Public Media* (radio), August 2, 2023.
2. [NYC Joins Growing List of Cities to Ban Natural Gas in Future Construction.](#) *The National Desk* (TV), December 16, 2021.
1. [Creating a Global Database For 3-D Printing.](#) *Houston Public Media* (radio), December 24, 2014.

PEER-REVIEWED RESEARCH PUBLICATIONS, * denotes the corresponding author(s)

92. Robles, A.; Miljanić, O. Š.* [Emerging Applications of Nanoporous Molecular Crystals.](#) *ACS Appl. Nano Mater.* **2023**, 6, 15331–15346.
91. Robles, A.; Alrayyani, M.; Wang, X.; Miljanić, O. Š.* [Cyclobenzil Hydrazones with Exceptional Iodine Capture Capacities in Solutions and on Interfaces.](#) *Cell Rep. Phys. Sci.* **2023**, 101509.
90. Ashirov, T.; Puangsamlee, T.; Robles, A.; Fritz, P. W.; Piech, K.; Miljanić, O. Š.*; Coskun, A.* [Eutectic Molten Salt Synthesis of Highly Microporous Macrocyclic Porous Organic Polymers for CO₂ Capture.](#) *Helv. Chim. Acta* **2023**, e202300072.
89. Meng, J.; Robles, A.; Jalife, S.; Ren, W.; Zhang, Y.; Zhao, L.; Liang, Y.*; Wu, J. I.*; Miljanić, O. Š.*; Yao, Y.* [Cyclotetrazolyl Derivatives for Electrochemical Lithium-Ion Storage.](#) *Angew. Chem. Int. Ed.* **2023**, e202300892.
Front cover of *Angew. Chem. Int. Ed.*
88. Yen, Y.-J.; Chen, T.-H.; Wang, Y.-T.; Robles, A.; Đerić, M.; Miljanić, O. Š.; Kaveevivitchai, W.; Chung, S.-H.* [Selective Chemisorption of Polysulfides by Porous Molecular Crystal: Cathode Host Materials for Lean-electrolyte Lithium-sulfur Cells with High Electrochemical Stability.](#) *J. Power Sources* **2023**, 565, 232891.
87. Wang, Y.-T.; Jalife, S. J.; Robles, A.; Đerić, M.; Wu, J. I.; Kaveevivitchai, W.; Miljanić, O. Š.*; Chen, T.-H.* [Efficient CO₂/CO Separation by Pressure Swing Adsorption Using an Intrinsically Porous Molecular Crystal.](#) *ACS Appl. Nano Mater.* **2022**, 5, 14021–14026.
Supplementary cover of *ACS Appl. Nano Mater.*
86. Karki, S.; Karas, L. J.; Wang, X.; Wu, J. I.; Miljanić, O. Š.* [Synthesis and Columnar Organization of Partially Fluorinated Dehydrobenz\[18\]Annulenes.](#) *Cryst. Growth Des.* **2022**, 22, 2076–2081.

85. Zhang, Z.; Lieu, T.; Wang, X.; Daugulis, O.;* Miljanić, O. Š.* [Synthesis and Photocyclization of Fluorinated Tetraphenylethylenes](#). *ChemPhotoChem* **2022**, *6*, e202200011.
Included in the *Hot Topic: C–C Coupling* collection.
84. Ashirov, T.; Alrayyani, M.; Song, K.-S.; Miljanić, O. Š.* Coskun, A.* [Cyclotetrabenzil-Based Porous Organic Polymers with High CO₂ Affinity](#). *Org. Mater.* **2021**, *3*, 346–352.
83. Wang, Y.-T.; McHale, C.; Wang, X.; Chang, C.-K.; Chuang, Y.-C.; Kaveevivitchai, W.; Miljanić, O. Š.*; Chen, T.-H.* [Cyclotetrabenzoin Acetate: A Macrocyclic Porous Molecular Crystal for CO₂ Separations by Pressure Swing Adsorption](#). *Angew. Chem. Int. Ed.* **2021**, *60*, 14931–14937.
Front cover of *Angew. Chem. Int. Ed.* Selected as a *Hot Paper*.
82. McHale, C. M.; Karas, L. J.; Wang, X.; Wu, J. I.*; Miljanić, O. Š.* [Cyclobenzoin Esters as Hosts for Thin Guests](#). *Org. Lett.* **2021**, *23*, 2253–2257.
81. Eisterhold, A. M.; Puangsamlee, T.; Otterbach, S.; Bräse, S.; Weis, P.; Wang, X.; Kutonova, K. V.*; Miljanić, O. Š.* [Expanded Cyclotetrabenzoin](#). *Org. Lett.* **2021**, *23*, 781–785.
Highlighted in *Synfacts*.
80. Ma, W.; Balta, V. A.; West, R.; Newlin, K. N.; Miljanić, O. Š.; Sullivan, D. J.*; Vekilov, P. G.*; Rimer, J. D.* [A Second Mechanism Employed by Artemisinins to Suppress *Plasmodium Falciparum* Hinges on Inhibition of Hematin Crystallization](#). *J. Biol. Chem.* **2021**, *296*, 100123.
79. Puangsamlee, T.; Miljanić, O. Š.* [Three-Way Chemoselectivity Switching through Coupled Equilibria](#). *Org. Lett.* **2020**, *15*, 5900–5904.
78. Zhang, Z.; Miljanić, O. Š.* [Fluorinated Organic Porous Materials](#). *Org. Mater.* **2019**, *1*, 19–29.
77. Zhang, Z.; Lieu, T.; Wu, C.-H.; Wang, X.; Wu, J. I.; Daugulis, O.; Miljanić, O. Š.* [Solvation-Dependent Switching of Solid-state Luminescence of a Fluorinated Aromatic Tetrapyrazole](#). *Chem. Commun.* **2019**, *55*, 9387–9390.
76. Yang, Z.; Wang, S.; Zhang, Z.; Guo, W.; Jie, K.; Hashim, M. I.; Miljanić, O. Š.; Jiang, D.; Popovs, I.*; Dai, S.* [Influence of Fluorination on CO₂ Adsorption in Materials Derived from Fluorinated Covalent Triazine Framework Precursors](#). *J. Mater. Chem. A* **2019**, *7*, 17277–17282.
75. McHale, C. M.; Stegemoller, C. R.; Hashim, M. I.; Wang, X.; Miljanić, O. Š.* [Porosity and Guest Inclusion in Cyclobenzoin Esters](#). *Cryst. Growth Des.* **2019**, *19*, 562–567.
74. Alrayyani, M.; Miljanić, O. Š.* [Benzoin and Cyclobenzoin in Supramolecular and Polymer Chemistry](#). *Chem. Commun.* **2018**, *54*, 11989–11997.
73. Zhang, Z.; Hashim, M. I.; Wu, C.-H.; Wu, J. I.; Miljanić, O. Š.* [Discrimination of Dicarboxylic Acids via Assembly-Induced Emission](#). *Chem. Commun.* **2018**, *54*, 11578–11581.
72. Hahn, S.; Koser, S.; Hodecker, M.; Seete, P.; Rominger, F.; Miljanić, O. Š.; Dreuw, A.; Bunz, U. H. F.* [Phenylene Bridged Cyclic Azaacenes: Dimers and Trimers](#). *Chem. Eur. J.* **2018**, *24*, 6968–6974.
71. Hashim, M. I.; Le, H. T. M.; Chen, T.-H.; Chen, Y.-S.; Daugulis, O.; Hsu, C.-W.; Jacobson, A. J.; Kaveevivitchai, W.; Liang, X.; Makarenko, T.; Miljanić, O. Š.*; Popovs, I.; Tran, H. V.; Wang, X.; Wu, C.-H.; Wu, J. I. [Dissecting Porosity in Molecular Crystals: Influence of](#)

- [Geometry, Hydrogen Bonding, and \$\[\pi \cdots \pi\]\$ Stacking on the Solid-State Packing of Fluorinated Aromatics.](#) *J. Am. Chem. Soc.* **2018**, *140*, 6014–6026.
70. Alrayyani, M.; Wang, X.; Miljanić, O. Š.* [Confinement of Water Pentamers within the Crystals of a Reduced Cyclotribenzoin.](#) *Chem. Eur. J.* **2017**, *23*, 16476–16478.
Selected as a *Hot Paper*.
69. Zhang, Z.; Hashim, M. I.; Miljanić, O. Š.* [Aggregation-Induced Emission in Precursors to Porous Molecular Crystals.](#) *Chem. Commun.* **2017**, 10022–10025.
68. Hahn, S.; Alrayyani, M.; Sontheim, A.; Wang, X.; Rominger, F.; Miljanić, O. Š.*; Bunz, U. H. F.* [Synthesis and Characterization of Heterobenzenacyclooctaphanes Derived from Cyclotetrabenzoin.](#) *Chem. Eur. J.* **2017**, *23*, 10543–10550.
Front cover of *Chem. Eur. J.* Highlighted in *Synfacts* **2017**, *13*, 0925.
67. Miljanić, O. Š.* [Small-Molecule Systems Chemistry.](#) *Chem* **2017**, *2*, 502–524.
66. Chen, T.-H.*; Popov, I.; Miljanić, O. Š.* [Zirconium Macrocyclic Metal-Organic Framework with Predesigned Shape-Persistent Apertures.](#) *Chem. Eur. J.* **2017**, *23*, 286–290.
65. Hsu, C.-W.; Miljanić, O. Š.* [Kinetically Controlled Simplification of a Multiresponsive \[10×10\] Dynamic Imine Library.](#) *Chem. Commun.* **2016**, *52*, 12357–12359.
64. Hashim, M. I.; Hsu, C.-W.; Le, H. T. M.; Miljanić, O. Š.* [Organic Compounds with Porous Crystal Structures.](#) *Synlett* **2016**, *27*, 1907–1918.
63. Hsu, C.-W.; Miljanić, O. Š.* Self-Sorting through Dynamic Covalent Chemistry, in [Dynamic Covalent Chemistry: Principles, Reactions, and Applications](#), (Eds.: Zhang, W.; Jin, Y.), Wiley, **2017**.
62. Ji, Q.; Le, H. T. M.; Wang, X.; Chen, Y.-S.; Makarenko, T.; Jacobson, A. J.; Miljanić, O. Š.* [Cyclotetrabenzoin: Facile Synthesis of a Shape-Persistent Molecular Square and Its Assembly into Hydrogen-Bonded Nanotubes.](#) *Chem. Eur. J.* **2015**, *21*, 17205–17209.
61. Chen, T.-H.; Popov, I.; Kaveevivitchai, W.; Chuang, Y.-C.; Chen, Y.-S.; Jacobson, A. J.; Miljanić, O. Š.* [Mesoporous Fluorinated Metal-Organic Frameworks with Exceptional Adsorption of Fluorocarbons and CFCs.](#) *Angew. Chem. Int. Ed.* **2015**, *54*, 13902–13906.
Selected as a *Hot Paper*.
60. Smith, M. K.; Miljanić, O. Š.* [Arylene Ethynylene Macrocycles: From Molecular Hosts to Components of High-Performance Supramolecular Architectures.](#) *Org. Biomol. Chem.* **2015**, *13*, 7841–7845.
59. Chen, T.-H.; Kaveevivitchai, W.; Jacobson, A. J.; Miljanić, O. Š.* [Adsorption of Fluorinated Anesthetics within the Pores of a Molecular Crystal.](#) *Chem. Commun.* **2015**, *51*, 14096–14098.
58. Ji, Q.; Do, L. H.; Miljanić, O. Š.* [Cyclotribenzoin.](#) *Synlett* **2015**, *26*, 1625–1627.
Included in the special issue of *Synlett* dedicated to Prof. K. Peter C. Vollhardt.
57. Le, H. T. M.; El-Hamdi, N. S.; Miljanić, O. Š.* [Benzobisimidazole Cruciform Fluorophores.](#) *J. Org. Chem.* **2015**, *80*, 5210–5217.
56. Zhang, Z.; Kim, D. S.; Lin, C.-Y.; Zhang, H.; Lammer, A.; Lynch, V. M.; Popov, I.; Miljanić, O. Š.*; Anslyn, E. V.*; Sessler, J. L.* [Expanded Porphyrin-Anion Supramolecular Assemblies: Environmentally Responsive Sensors for Organic Solvents and Anions.](#) *J. Am. Chem. Soc.* **2015**, *137*, 7769–7774.
Front cover of *J. Am. Chem. Soc.*
55. Chen, T.-H.; Popov, I.; Chuang, Y.-C.; Chen, Y.-S.; Miljanić, O. Š.* [A Mesoporous Metal-](#)

- [Organic Framework Based on a Shape-Persistent Macrocyclic](#). *Chem. Commun.* **2015**, *51*, 6340–6342.
54. Hendon, C.; Wittering, K.; Chen, T.-H.; Kaveevivitchai, W.; Popov, I.; Butler, K. T.; Wilson, C. C.; Cruickshank, D.*; Miljanić, O. Š.*; Walsh, A.* [Adsorbate-Induced Piezochromism in a Porous Molecular Crystal](#). *Nano Lett.* **2015**, *15*, 2149–2154.
53. Hsu, C.-W.; Miljanić, O. Š.* [Adsorption-Driven Self-Sorting of Dynamic Imine Libraries](#). *Angew. Chem. Int. Ed.* **2015**, *54*, 2219–2222.
52. Popov, I.; Chen, T.-H.; Belyakov, S.; Daugulis, O.; Wheeler, S. E.; Miljanić, O. Š.* [The Macrocyclic Embrace: Encapsulation of Fluoroarenes by a *m*-Phenylene Ethynylene Host](#). *Chem. Eur. J.* **2015**, *21*, 2750–2754.
Inside back cover of *Chem. Eur. J.*
51. Chen, T.-H.; Popov, I.; Kaveevivitchai, W.; Chuang, Y.-C.; Chen, Y.-S.; Daugulis, O.; Jacobson, A. J.; Miljanić, O. Š.* [Thermally Robust and Porous Noncovalent Organic Framework with High Affinity for Fluorocarbons and Freons](#). *Nat. Commun.* **2014**, *5*, doi: 10.1038/ncomms6131.
Highlighted in *Chemical & Engineering News*, *Nature Chemistry*, *EurekaAlert!*, *Nanowerk*, *Economic Times*, *ChemEurope*, *Science Daily*, *Homeland Security News Wire*, and *Neomatica*.
50. Chen, T.-H.; Popov, I.; Kaveevivitchai, W.; Miljanić, O. Š.* [Metal-Organic Frameworks: Rise of the Ligands](#). *Chem. Mater.* **2014**, *26*, 4322–4325.
Front cover of *Chem. Mater.*
49. Lirag, R. C.; Miljanić, O. Š.* [Four Acid-Catalysed Dehydrations Proceed Without Interference](#). *Chem. Commun.* **2014**, *50*, 9401–9404.
48. Saeed, M. A.; Le, H. T. M.; Miljanić, O. Š.* [Benzobisoxazole Cruciforms as Fluorescent Sensors](#). *Acc. Chem. Res.* **2014**, *47*, 2074–2083.
47. Chen, T.-H.*; Lee, S.; Flood, A. H.; Miljanić, O. Š. [How to Print a Crystal Structure Model in 3D](#). *CrystEngComm* **2014**, *16*, 5488–5493.
Highlighted in *Chemical & Engineering News* and *Chemistry World*. Selected as *HOT CrystEngComm Article* in June 2014. Front cover of *CrystEngComm*. Most accessed *CrystEngComm* article in 2014.
46. Ji, Q.; El-Hamdi, N. S.; Miljanić, O. Š.* [Scent Transmutation: A New Way To Teach on Chemical Equilibrium, Distillation, and Dynamic Combinatorial Chemistry](#). *J. Chem. Educ.* **2014**, *91*, 830–833.
45. Ji, Q.; Lirag, R. C.; Miljanić, O. Š.* [Kinetically Controlled Phenomena in Dynamic Combinatorial Libraries](#). *Chem. Soc. Rev.* **2014**, *43*, 1873–1884.
44. Ji, Q.; Miljanić, O. Š.* [Distillative Self-Sorting of Dynamic Ester Libraries](#). *J. Org. Chem.* **2013**, *78*, 12710–12716.
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42. Jo, M.; Lim, J.; Miljanić, O. Š.* [Selective and Sensitive Fluoride Detection through Alkyne Cruciform Desilylation](#). *Org. Lett.* **2013**, *15*, 3518–3521.
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CITATIONS

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INVITED ORAL PRESENTATIONS

129. Int'l Conference on Noncovalent Interactions (ICNI-III); Belgrade, Serbia; 17–21 Jun 2024
128. Bowling Green State University; Bowling Green, OH; 10 Apr 2023
128. University of Osaka; Osaka, Japan; 12 Mar 2024
127. 4th Int'l Symposium on Porous Organic Polymers; Thuwal, Saudi Arabia; 12–14 Feb 2024
126. International Conference on Desalination, Environment and Sustainability (IDEAS 2024); Abu Dhabi, UAE; 22–23 Jan 2024
125. North American Supramolecular Chemistry meeting; New Orleans, LA; 18–19 Dec 2023
124. Texas Pore Engineering Conference (TEXPEC-2023); Denton, TX; 22 Oct 2023
Cyclobenzoin and Their Energy-Related Applications
123. Summer School of Science; Ivanova Korita, Montenegro; 11 Aug 2023
Atmospheric Changes, Climate Changes
122. Telluride Science Workshop on Synthetic Porous Materials; Telluride, CO; 11 Jun 2023
Cyclobenzoin: Bridging the Extrinsic and Intrinsic Porosity
121. University of Belgrade; Belgrade, Serbia; 29 May 2023
Cyclobenzoin
120. Ohio University; Athens, OH; 30 Jan 2023
Greenhouse Gas Capture in Porous Molecular Crystals
119. University of Wrocław; Wrocław, Poland; 24 Jan 2023 (delivered virtually)
Greenhouse Gas Capture in Porous Molecular Crystals
118. University of North Texas; Denton, TX; 10 Nov 2022
Greenhouse Gas Capture in Porous Molecular Crystals
117. Int'l Conference on the Chemistry of the Organic Solid State; Ohrid, Macedonia; 8 Jul 2022
Greenhouse Gas Capture in Porous Molecular Crystals
116. Int'l Symposium on Macrocyclic and Supramolecular Chemistry; Eugene, OR; 20 Jun 2022
Greenhouse Gas Capture in Porous Molecular Crystals
115. Friedrich-Schiller-Universität; Jena, Germany; 13 Jun 2022

- Greenhouse Gas Capture in Porous Molecular Crystals*
114. Technische Universität Berlin; Berlin, Germany; 10 Jun 2022
Greenhouse Gas Capture in Porous Molecular Crystals
113. Adolphe Merkle Institute; Fribourg, Switzerland; 03 Jun 2022
Greenhouse Gas Capture in Porous Molecular Crystals
112. University of Konstanz; Konstanz, Germany; 02 Jun 2022
Greenhouse Gas Capture in Porous Molecular Crystals
111. Austin College; Sherman, TX; 25 Apr 2022
Greenhouse Gas Capture in Porous Molecular Crystals
110. 4th Symposium on Supramolecular Chemistry; Zagreb, Croatia; 10 Dec 2021 (virtual)
Greenhouse Gas Capture in Porous Molecular Crystals
109. University of South Florida; Tampa, FL; 3 Nov 2021 (virtual)
Novel Aromatics as Precursors to Porous Molecular Crystals
108. Aggregation-Induced Emission @20 (AIE20); 25 Jul 2021 (virtual)
Aggregation-Induced Emission in Precursors to Porous Molecular Crystals
107. University of Illinois, Chicago; Chicago, IL; 14 Jan 2021 (virtual)
Novel Aromatics as Precursors to Porous Molecular Crystals
106. McGill University; Montreal, Canada; 27 Oct 2020 (virtual)
Novel Aromatics as Precursors to Porous Molecular Crystals
105. Int'l Conference on Chemistry Applications; Ho Chi Minh City, Vietnam; 24 Jul 2020 (virtual)
Cyclobenzoin
104. University of Adelaide; Adelaide, Australia; 08 May 2020 (virtual)
Novel Aromatics as Precursors to Porous Molecular Crystals
103. University of Colorado; Boulder, CO; 02 Mar 2020
Novel Aromatics as Precursors to Porous Molecular Crystals
102. University of Industry; Ho Chi Minh City, Vietnam; 12 Dec 2019
Novel Aromatics as Precursors to Porous Molecular Crystals
101. Int'l Conference on Porous Organic Polymers (POPs); Heidelberg, Germany; 10 Sep 2019
Guest Binding and Structural Flexibility in Porous Molecular Crystals
100. International Materials Research Congress (IMRC); Cancun, Mexico; 18–23 Aug 2019
Porous Materials Based on Fluorinated Aromatics
99. Friedrich-Alexander Universität; Erlangen, Germany; 29 Jul 2019
Reversibility: From Messy Mixtures to Ordered Materials
98. Freie Universität Berlin; Berlin, Germany; 25 Jul 2019
Novel Aromatics as Precursors to Porous Molecular Crystals
97. Université de Strasbourg; Strasbourg, France; 19 Jul 2019
Reversibility: From Messy Mixtures to Ordered Materials
96. Marquette University; Milwaukee, WI; 22 Mar 2019
Novel Aromatics as Precursors to Porous Molecular Crystals
95. 10th Singapore Int'l Chemical Conference (SICC-10); Singapore, Singapore; 17 Dec 2018
Novel Aromatics as Precursors to Porous Molecular Crystals
94. NanoThailand 2018, Supramolecular Nanomaterials; Pathum Thani, Thailand; 13 Dec 2018

- Novel Aromatics as Precursors to Porous Molecular Crystals*
93. Gordon Research Conference on Systems Chemistry; Sunday River, ME; 2 Aug 2018
Reversibility: From Messy Mixtures to Ordered Materials
 92. University of Basel; Basel, Switzerland; 23 Jul 2018
Novel Aromatics as Precursors to Porous Molecular Crystals
 91. Johannes Gutenberg-Universität; Mainz, Germany; 18 Jul 2018
Novel Aromatics as Precursors to Porous Molecular Crystals
 90. Karlsruhe Institute of Technology (KIT); Karlsruhe, Germany; 17 Jul 2018
Novel Aromatics as Precursors to Porous Molecular Crystals
 89. University of Würzburg; Würzburg, Germany; 16 Jul 2018
Novel Aromatics as Precursors to Porous Molecular Crystals
 88. University of Fribourg; Fribourg, Switzerland; 21 Jun 2018
Novel Aromatics as Precursors to Porous Molecular Crystals
 87. Chalmers University of Technology; Göteborg, Sweden; 7 Jun 2018
Novel Aromatics as Precursors to Porous Molecular Crystals
 86. Ruprecht-Karls-Universität Heidelberg; Heidelberg, Germany; 29 May 2018
*Porous Molecular Crystals Based on Fluorinated Pyrazoles and Cyclobenzoin*s
 85. University of Oregon; Eugene, OR; 27 Apr 2018
Novel Aromatics as Precursors to Porous Molecular Crystals
 84. ACS Award in Pure Chemistry, honoring Mircea Dincă; New Orleans, LA; 19 Mar 2018
*Porous Molecular Crystals: Fluorinated Pyrazoles and Cyclobenzoin*s
 83. University of Groningen; Groningen, the Netherlands; 12 Dec 2017
Reversibility: From Messy Mixtures to Ordered Sponges
 82. Georgetown University; Washington, DC; 5 Oct 2017
Porous Molecular Crystals
 81. Int'l Symposium on Macrocyclic and Supramolecular Chemistry; Cambridge, UK; 6 Jul 2017
*Porous Molecular Crystals: Fluorinated Pyrazoles and Cyclobenzoin*s
 80. Supramolecular Chemistry Ireland; Maynooth, Ireland; 28 Jun 2017
Supramolecular Interactions in the Construction of Porous Materials
 79. Golden Age for Chemistry, Fraser Stoddart's 75th birthday; Nottingham, UK; 26 Jun 2017
*Cyclobenzoin*s
 78. ACS Symposium on Porous Materials for Sustainable Energy; San Francisco, CA; 4 Apr 2017
Porous Materials for Capture of Fluorinated Guests
 77. Ulm University; Ulm, Germany; 16 Mar 2017
Fluorinated Porous Materials: From Metal-Organic Frameworks to Molecular Crystals
 76. Ruprecht-Karls-Universität Heidelberg; Heidelberg, Germany; 15 Mar 2017
Fluorinated Porous Materials: From Metal-Organic Frameworks to Molecular Crystals
 75. Technische Universität Dresden; Dresden, Germany; 14 Mar 2017
Fluorinated Porous Materials: From Metal-Organic Frameworks to Molecular Crystals
 74. Lamar University; Beaumont, TX; 10 Feb 2017
Fluorinated Porous Materials: From Metal-Organic Frameworks to Molecular Crystals
 73. 9th Singapore International Chemical Conference (SICC-9); Singapore; 12 Dec 2016

Porous Molecular Crystals

72. Indiana University; Bloomington, IN; 18 Oct 2016
Fluorinated Porous Materials: From Metal-Organic Frameworks to Molecular Crystals
71. Serbian Academy of Sciences and Arts (SANU); Belgrade, Serbia; 08 Jun 2016
Porous Molecular Crystals
70. 47th ACS Central Regional Meeting; Covington, KY; 19 May 2016
Fluorinated Porous Materials: From Metal-Organic Frameworks to Molecular Crystals
69. UH Dept of Electrical and Computer Engineering; Houston, TX; 25 Mar 2016
Fluorinated Porous Materials: From Metal-Organic Frameworks to Molecular Crystals
68. 81st Annual Meeting of the Israel Chemical Society; Tel Aviv, Israel; 10 Feb 2016
Fluorinated Porous Materials: From Metal-Organic Frameworks to Molecular Crystals
67. Universidade Federal do Rio de Janeiro; Rio de Janeiro, Brazil; 15 Dec 2015
Fluorinated Porous Materials: From Metal-Organic Frameworks to Molecular Crystals
66. Universidade Federal Fluminense; Niterói, Brazil; 14 Dec 2015
Fluorinated Porous Materials: From Metal-Organic Frameworks to Molecular Crystals
65. Universidade Estadual de Campinas; São Paulo, Brazil; 10 Dec 2015
Fluorinated Porous Materials: From Metal-Organic Frameworks to Molecular Crystals
64. Molecular Foundry, Lawrence Berkeley National Laboratory; Berkeley, CA; 22 Oct 2015
Fluorinated Porous Materials: From Metal-Organic Frameworks to Molecular Crystals
63. 21st International Symposium on Fluorine Chemistry; Como, Italy; 28 Aug 2015
Fluorinated Porous Materials: Metal-Organic Frameworks & Porous Molecular Crystals
62. Nanyang Technological University; Singapore, Singapore; 02 Jul 2015
MOFs without Metals and Other Stories
61. International Conference on Materials for Advanced Technologies; Singapore; 01 Jul 2015
Fluorinated Porous Materials
60. Gordon Research Conference: Physical Organic Chemistry, discussion leader; Holderness, NH; 26 Jun 2015
59. Telluride Science Workshop on Metal-Organic Frameworks; Telluride, CO; 15 Jun 2015
MOFs without Metals
58. Qatar University; Doha, Qatar; 11 May 2015
Complexity in Solution & Solids: Sensing, Self-Sorting, and Porous Molecular Crystals
57. Uppsala Universitet; Uppsala, Sweden; 24 Apr 2015
Complexity in Solution and Solids: Self-Organizing Mixtures & Porous Molecular Crystals
56. Academy of Sciences of the Czech Republic; Prague, Czech Republic; 20 Apr 2015
Complexity in Solution and Solids: Self-Organizing Mixtures & Porous Molecular Crystals
55. Freie Universität Berlin; Berlin, Germany; 17 Apr 2015
Complexity in Solution and Solids: Self-Organizing Mixtures & Porous Molecular Crystals
54. Masdar Institute; Abu Dhabi, United Arab Emirates; 14 Apr 2015
Porous Fluorinated Molecular Crystals
53. Université Paris-Sud 11; Orsay, France; 10 Apr 2015
Complexity in Solution and Solids: Self-Organizing Mixtures & Porous Molecular Crystals
52. New York University Abu Dhabi; Abu Dhabi, United Arab Emirates; 09 Feb 2015

- Complexity in Solution and Solids: Self-Organizing Mixtures & Porous Molecular Crystals*
51. Encuentro de Química Supramolecular (plenary); Mexico City, Mexico; 25 & 26 Aug 2014
*Ordered Porous Materials Based on Fluorinated and Macrocyclic Building Blocks
Self-Sorting of Dynamic Combinatorial Libraries*
 50. Fresenius Award Symposium, honoring William Dichtel; San Francisco, CA; 11 Aug 2014
Extensively Fluorinated Porous Materials
 51. Summer School on Applied Supramolecular Chemistry; Belgrade, Serbia; 28 & 29 Jul 2014
*Ordered Porous Materials Based on Fluorinated and Macrocyclic Building Blocks
Self-Sorting of Dynamic Combinatorial Libraries*
 48. Fudan University; Shanghai, China; 6 Jun 2014
Regulated Equilibria and Compartmentalization in Synthetic Chemistry
 47. Hong Kong Baptist University; Hong Kong, China; 4 Jun 2014
Regulated Equilibria and Compartmentalization in Synthetic Chemistry
 46. Jilin University; Changchun, China; 2 Jun 2014
Regulated Equilibria and Compartmentalization in Synthetic Chemistry
 45. Seoul National University; Seoul, South Korea; 29 May 2014
Regulated Equilibria and Compartmentalization in Synthetic Chemistry
 44. Korea Advanced Institute of Science and Technology; Daejeon, South Korea; 26 May 2014
Regulated Equilibria and Compartmentalization in Synthetic Chemistry
 43. ACS Inorganic Supramolecular Chemistry Symposium; Dallas, TX; 16–20 Mar 2014
Metal-Organic Frameworks Based on Fluorinated and Dehydrobenzannulenic Linkers
 42. University of Oregon; Eugene, OR; 14 Mar 2014
Regulated Equilibria and Compartmentalization in Synthetic Chemistry
 41. Oregon State University; Corvallis, OR; 13 Mar 2014
Regulated Equilibria and Compartmentalization in Synthetic Chemistry
 40. University of Washington; Seattle, WA; 12 Mar 2014
Regulated Equilibria and Compartmentalization in Synthetic Chemistry
 39. Wesleyan University; Middletown, CT; 31 Jan 2014
Regulated Equilibria and Compartmentalization in Synthetic Chemistry
 38. Dartmouth College; Hanover, NH; 30 Jan 2014
Regulated Equilibria and Compartmentalization in Synthetic Chemistry
 37. University of Texas at Austin; Austin, TX; 22 Nov 2013
Self-Sorting and Compartmentalization in Dynamic Combinatorial Libraries
 36. ACS Young Academic Investigator Symposium; Indianapolis, IN; 8 Sep 2013
*Self-Sorting of Dynamic Combinatorial Libraries under Irreversible Physical and
Chemical Stimuli*
 35. National University of Singapore; Singapore, Singapore; 26 Jul 2013
Regulated Equilibria and Compartmentalization in Synthetic Chemistry
 34. Nanyang Technological University; Singapore, Singapore; 25 Jul 2013
Regulated Equilibria and Compartmentalization in Synthetic Chemistry
 33. Int'l Symposium on Macrocyclic and Supramolecular Chemistry; Arlington, VA; 9 Jul 2013
High-Fidelity Self-Sorting of Dynamic Combinatorial Libraries

32. Telluride Science Workshop on Shape-Responsive Fluorophores; Telluride, CO; 12 Jun 2013
Cross-Conjugated Benzobisoxazoles and Benzimidazoles as Versatile Fluorescent Sensors
31. University of Belgrade; Belgrade, Serbia; 7 Jun 2013
Regulated Equilibria and Compartmentalization in Synthetic Chemistry
30. UH Innov8 Teaching Innovation Lecture Series; Houston, TX; 03 May 2013
Impacting Education through Technology: From Distance Learning to Hands-On Models
29. Southern Illinois University; Carbondale, IL; 22 Mar 2013
Regulated Equilibria and Compartmentalization in Synthetic Chemistry
28. University of Illinois, Chicago; Chicago, IL; 21 Mar 2013
Regulated Equilibria and Compartmentalization in Synthetic Chemistry
27. Royal Institute of Technology (KTH); Stockholm, Sweden; 15 Mar 2013
26. University of Southern California; Los Angeles, CA; 05 Mar 2013
Regulated Equilibria and Compartmentalization in Synthetic Chemistry
25. University of California, San Diego; San Diego, CA; 04 Mar 2013
Reversibility at Work and Play: From Dynamic Cruciform Sensors to Metal-Organic Frameworks
24. San Diego State University; San Diego, CA; 01 Mar 2013
Regulated Equilibria and Compartmentalization in Synthetic Chemistry
23. University of California, Riverside; Riverside, CA; 28 Feb 2013
Reversibility at Work and Play: From Dynamic Cruciform Sensors to Metal-Organic Frameworks
22. University of Southern Denmark (Syddansk Universitet); Odense, Denmark; 29 Jan 2013
Regulated Equilibria and Compartmentalization in Synthetic Chemistry
21. Baylor University; Waco, TX; 16 Nov 2012
Reversibility at Work and Play: From Dynamic Cruciform Sensors to Metal-Organic Frameworks
20. Texas A&M University; College Station, TX; 11 Oct 2012
Reversibility at Work and Play: From Dynamic Cruciform Sensors to Metal-Organic Frameworks
19. The University of Texas at Dallas; Richardson, TX; 07 Sep 2012
To Benzazoles and Back: Cruciform Fluorophores and Dynamic Self-Sorting Libraries
18. Ruprecht-Karls-Universität Heidelberg; Heidelberg, Germany; 02 Jul 2012
To Benzazoles and Back: From Self-Organizing Imine Mixtures to Cruciform Fluorophores
17. Louisiana State University; Baton Rouge, LA; 03 Apr 2012
Benzazoles as Broad-Spectrum Fluorescent Sensors and Components of Self-Sorting Systems
16. King Abdullah University of Science and Technology; Thuwal, Saudi Arabia; 05 Feb 2012
Benzazoles as Broad-Spectrum Fluorescent Sensors and Components of Self-Sorting Systems
15. Universidad de Guanajuato; Guanajuato, Mexico; 12 May 2011
To Benzazoles and Back: Conjugated Cruciforms and Kinetic Self-Sorting

14. Tulane University; New Orleans, LA; 18 Apr 2011
To Benzazoles and Back: Conjugated Cruciforms and Kinetic Self-Sorting
13. University of New Orleans; New Orleans, LA; 15 Apr 2011
To Benzazoles and Back: Conjugated Cruciforms and Kinetic Self-Sorting
12. University of South Carolina; Columbia, SC; 7 Apr 2011
To Benzazoles and Back: Conjugated Cruciforms and Kinetic Self-Sorting
11. California NanoSystems Institute at UCSB; Santa Barbara, CA; 1 Apr 2011
To Benzazoles and Back: Conjugated Cruciforms and Kinetic Self-Sorting
10. Texas Tech University; Lubbock, TX; 9 Mar 2011
To Benzazoles and Back: Conjugated Cruciforms and Kinetic Self-Sorting
9. University of Texas, El Paso; El Paso, TX; 4 Mar 2011
To Benzazoles and Back: Conjugated Cruciforms and Kinetic Self-Sorting
8. Trinity University; San Antonio, TX; 27 Jan 2011
To Benzazoles and Back: Conjugated Cruciforms and Kinetic Self-Sorting
7. Texas State University; San Marcos, TX; 26 Jan 2011
To Benzazoles and Back: Conjugated Cruciforms and Kinetic Self-Sorting
6. University of St. Thomas; Houston, TX; 15 Nov 2011
Formation and Destruction of Yugoslavia
5. Universitat Autònoma de Barcelona (UAB); Barcelona, Spain; 11 Jul 2010
To Benzazoles and Back: Conjugated Cruciforms and Kinetic Self-Sorting
4. Northwestern Univ., Center for Chemistry of Integrated Systems; Evanston, IL; 29 May 2010
To Benzazoles and Back: Conjugated Cruciforms and Kinetic Self-Sorting
3. Centro de Investigación y Estudios Avanzados; Mexico City, Mexico; 7 Dec 2009
Control in the Synthesis of Mechanically Interlocked Molecules
2. Universidad Nacional Autónoma de México (UNAM); Mexico City, Mexico; 4 Dec 2009
Control in the Synthesis of Mechanically Interlocked Molecules
1. 65th Southwest Regional American Chemical Society Meeting; El Paso, TX; 5 Nov 2009
Engineering MOFs for Molecular Recognition

RESEARCH FUNDING (not teaching related)—total of \$3,747,692

International Competition

23. *Porous Molecular Crystals*
 Sponsor: Max Kade Foundation
 Amount: \$15,000 Funding period: 05/20/2018–08/01/2018

Nation-Wide Competition

22. *CAS-Climate: Supramolecular and Dynamic Covalent Chemistry of Carbon Dioxide*
 Sponsor: National Science Foundation CHE
 Amount: \$495,000 Funding period: 06/01/2022–05/31/2025
21. *Stimuli-Responsive Porous Molecular Crystals*
 Sponsor: National Science Foundation DMR
 Amount: \$456,706 Funding period: 08/15/2019–07/31/2022

20. *Cyclobenzoin: Hosts for Small Gases and Precursors to Curved Aromatics*
Sponsor: ACS Petroleum Research Fund New Directions Program
Amount: \$110,000 Funding period: 09/01/2018–08/31/2020
19. *Monolayer Catalyst for Efficient Electrolytic Hydrogen Isotope Separation*
PI: Stanko R. Branković, co-PIs: Ognjen Š. Miljanić, Lars C. Grabow
Sponsor: National Science Foundation CBET
Amount: \$388,526 (\$92,818 to Miljanić) Funding period: 09/01/2016–08/31/2019
18. *Porous Molecular Crystals and Metal-Organic Frameworks Based on Fluorinated Pyrazoles*
PI: Ognjen Š. Miljanić, co-PI: Olafs Daugulis
Sponsor: National Science Foundation DMR
Amount: \$450,000 (\$227,393 to Miljanić) Funding period: 06/01/2015–05/31/2018
17. *Control of Interpenetration in Metal-Organic Frameworks via Spatial Protecting Groups*
Sponsor: ACS Petroleum Research Fund Doctoral New Investigator Program (PRF-DNI)
Amount: \$100,000 Funding period: 08/01/2010–08/31/2012

State-Wide Competition

16. *Robust Porosity in Molecular Crystals*
Sponsor: Robert A. Welch Foundation
Amount: \$250,000 Funding period: 06/01/2017–05/31/2020
15. *Shape-Persistent Fluorophores Based on Benzimidazoles and Tetrasubstituted Silanes*
Sponsor: Texas Higher Education Coordinating Board, Texas Research Incentive Program
Amount: \$160,343 Funding period: 08/15/2016–08/31/2099
14. *Shape-Persistent Fluorophores Based on Benzimidazoles and Tetrasubstituted Silanes*
Sponsor: Robert A. Welch Foundation
Amount: \$180,000 Funding period: 06/01/2014–05/31/2017
13. *Conjugated Benzobisoxazole Cruciforms as Fluorescent Sensors in Solution and Solid State*
Sponsor: Robert A. Welch Foundation
Amount: \$170,000 Funding period: 06/01/2011–05/31/2014

University-Wide Competition

12. *Carbon Dioxide Capture in Inexpensive and Robust Porous Materials*
Sponsor: High Priority Area Research Seed Grants
Amount: \$60,108 Funding period: 05/01/2020–05/31/2022
11. *Resthetics: Recycling of Fluorinated Anesthetics Using Noncovalent Organic Frameworks*
Sponsor: UH Technology Gap Funding
Amount: \$50,000 Funding period: 06/01/2016–05/31/2017
10. *Cyclobenzoin Derivatives as Experimental Models for Graphene Defects*
Sponsor: Grants to Advance and Enhance Research (GEAR)
Amount: \$29,509 Funding period: 06/01/2016–05/31/2017
9. *Fluorinated Porous Materials: From Light Emitting Materials to Oxygen Delivery*
Sponsor: Grants to Advance and Enhance Research (GEAR)
Amount: \$30,000 Funding period: 06/01/2014–05/31/2015
8. *Benzobisazole Cruciforms as General Optical Sensing Platforms*

- Sponsor: Small Grants Program
Amount: \$3,000 Funding period: 01/01/2013–12/31/2013
7. *Benzobisazole Cruciforms as General Optical Sensing Platforms*
Sponsor: Small Grants Program
Amount: \$3,000 Funding period: 01/01/2012–12/31/2012
 6. *Benzobisazole Cruciforms as General Optical Sensing Platforms*
Sponsor: Small Grants Program
Amount: \$3,000 Funding period: 01/01/2011–12/31/2011
 5. *Reversible Synthesis of Benzoxazoles: A Route to Ion Receptors and Porous Materials*
Sponsor: Grants to Advance and Enhance Research (GEAR)
Amount: \$25,000 Funding period: 06/01/2010–05/31/2011
 4. *Avoiding Interpenetration in the Synthesis of Ultrahigh Porosity Materials*
Sponsor: New Faculty Research Program
Amount: \$6,000 Funding period: 01/01/2010–12/31/2010
 3. *Nanospace Engineering through Guanine Self-Assembly*
Sponsor: Texas Center for Superconductivity at the University of Houston (TcSUH)
Amount: \$20,000 Funding period: 09/01/2009–09/01/2010
 2. *Degradable Polymers as an Ultra-Responsive Sensing Platform in Space Flight Applications*
Sponsor: Institute for Space Systems Operations (ISSO)
Amount: \$9,600 Funding period: 06/01/2009–08/31/2009
 1. *Nanospace Engineering through Guanine Self-Assembly*
Sponsor: Texas Center for Superconductivity at the University of Houston (TcSUH)
Amount: \$10,000 Funding period: 09/01/2008–09/01/2009

CONFERENCE ORGANIZATION

- 3rd Texas Pore Engineering Conference*; Houston, TX 2024
Texas Pore Engineering Conference, Scientific Board member 2023–present
11th Int'l Conference on Materials for Advanced Technologies; Singapore 2022
3rd Int'l Symposium on Porous Organic Polymers; Boulder, CO 2022
 Session chair at the *241st American Chemical Society National Meeting & Exposition*
 Session chair at the *65th Southwest Regional American Chemical Society Meeting*

EDITORIAL APPOINTMENTS

- Organic Materials*, Associate Editor 2022–present
Sustainability and Circularity NOW, Editorial Advisory Board member 2023–present
Phlogiston, Editorial Advisory Board member 2023–present
Organic Materials, Editorial Advisory Board member 2018–2022
RSC Advances, Associate Editor 2015–2017
 Guest editor for the 2017 ISMSC issue of *Supramolecular Chemistry* 2017

JOURNAL REVIEWING

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| Nature Chemistry | Nature Communications |
| Angewandte Chemie | Accounts of Chemical Research |
| Journal of the American Chemical Society | Chemical Science |
| Journal of Organic Chemistry | Chemistry—A European Journal |

Chemical Communications	Organic Letters
Pure and Applied Chemistry	Chemical Society Reviews
Crystal Growth & Design	Macromolecules
Synlett	Organic & Biomolecular Chemistry
Inorganic Chemistry	Tetrahedron Letters
RSC Advances	Asian Journal of Organic Chemistry
ACS Applied Materials & Interfaces	Nanotechnology Reviews
Current Organic Chemistry	Dalton Transactions
Journal of Materials Chemistry C	Supramolecular Chemistry
ACS Sustainable Chemistry & Engineering	Chemistry of Materials
Beilstein Journal of Organic Chemistry	Journal of Fluorine Chemistry
Journal of Chemical Education	New Journal of Chemistry
European Journal of Inorganic Chemistry	Journal of Physical Chemistry
ChemNanoMat	RSC Sustainability
Nanoscale	Advanced Functional Materials
Catalysis Science & Technology	

FUNDING PROPOSAL REVIEWING, ad hoc and panel service

National Science Foundation (NSF)	National Institutes of Health (NIH)
ACS Petroleum Research Fund	Alfred P. Sloan Foundation
Army Research Office (ARO)	European Research Council (ERC)
National Research Agency of France	Science Fund of the Republic of Serbia
Polish National Science Centre	New York University Abu Dhabi (NYAUD)
John D. and Catherine T. MacArthur Foundation	
Netherlands Organisation for Scientific Research (NWO)	
Research Corporation for Science Advancement	
Singapore Agency for Science, Technology and Research (A*STAR)	
Louisiana Board of Regents	

ACADEMIC LEADERSHIP TRAINING

ALT2017 Leadership Training workshop; Washington DC	2017
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OTHER SERVICE ACTIVITIES

Within the University

Chair, NSM Anti-racism and Racial Equality Committee	2020–2023
Chair, NSM Policy Committee	2020–2023
University Faculty Grievance Committee	2020–2023
Energy & Sustainability Faculty Search Committee, Honors College	2023
Chair, NSM GEAR Award Review Committee	2023–present
NSM GEAR Award Review Committee	2018–2021
UH Athletic Advisory Committee for Provost	2016–2019
College of Natural Sciences & Mathematics Dean Search Committee	2013–2014

Within the Department of Chemistry

Polymer Chemistry Faculty Search Committee	2014
Materials Chemistry Faculty Search Committee	2013

Polymer Chemistry Faculty Search Committee 2012
Departmental Seminar Coordinator 2011–2013
Organic Division Seminar Coordinator 2009–2010
Member of numerous (>120) Oral Research Progress, MS Thesis, and PhD Dissertation
Committees in the Departments of Chemistry, Computer & Electrical Engineering, and
Chemical Engineering

In the Broader Scientific Community

Alumni organization of the University of Belgrade's Faculty of Chemistry, US representative

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

Royal Society of Chemistry Serbian Chemical Society
Israel Chemical Society

CONSULTING ACTIVITIES

W. H. Freeman & Company Oxford University Press
McGraw–Hill Companies Taylor & Francis Group
W. W. Norton & Company Houston Marathon