



Yilei Wu

Laboratory Services Manager 2, Chemistry

Bio

BIO

As a research scientist at Stanford University, I am passionate about advancing the field of organic electronics and solar energy conversion. I have over 15 years of experience in designing, synthesizing, and applying novel organic materials for various applications, such as thin-film transistors, solar cells, spintronics, fluorescence imaging, and molecular machines. I work to develop high-performance organic materials for solution printable solar cells and wearable electronics. I leverage my expertise in supramolecular chemistry, thin-film deposition, and device characterization to optimize the donor-acceptor interfaces and bulk morphology of organic photovoltaic materials. My work contributes to the development of flexible and lightweight solar cells that can provide a sustainable and versatile solution for the modern military and civilian needs.

I oversee the operation and management of Chemistry department laboratory teaching facilities. I also oversee and administer health and safety programs and ensure safety compliance.

As instructor, I teach CHEM 100: Chemical Laboratory and Safety Skills. This is a short in-lab course that is only held in the second week of the Autumn quarter. It provides training in basic chemical laboratory procedures and chemical safety to fulfill the safety training requirement for CHEM 121 and more advanced laboratory courses. The following topics are covered: Reading and Understanding Safety Data Sheets (SDS), Exploring Hazards and Risks, Waste Management, Basic Purification (TLC, Extraction, Filtration, etc.) and Analysis Techniques. In spring 2026 I will teach CHEM 121: Understanding the Natural and Unnatural World through Chemistry.

HONORS AND AWARDS

- Future Faculty Scholar Award, American Chemical Society (2020)
- Ryan Fellowship, International Institute for Nanotechnology (2014)
- Fulbright Fellowship, US Department of State (2012)
- EPSRC Studentship, UK Engineering and Physical Sciences Research Council (2010)
- ECTN-IREU Scholarship, European Chemistry Thematic Network (2008)

EDUCATION AND CERTIFICATIONS

- Ph.D., Northwestern University, USA , Chemistry (2017)

LINKS

- Yilei Wu - Google Scholar: <https://scholar.google.com/citations?user=gcFukoAAAAAJ&hl=en>
- linkedin: <https://www.linkedin.com/in/yilei-wu-15a65729/>

Teaching

COURSES

2025-26

- Chemical Laboratory and Safety Skills: CHEM 100 (Aut)

2024-25

- Chemical Laboratory and Safety Skills: CHEM 100 (Aut)

Professional

WORK EXPERIENCE

- Academic Staff Research Scientist - Stanford University

Publications

PUBLICATIONS

- **Biofunctionalized polymer semiconductors toward soft and stretchable transistor-based biosensors.** *Science advances*
Zhao, C., Liu, Q., Chang, J. Y., Patil, A., Michalek, L., Wu, Y., Yuan, Y., Mow, R. K., Shi, Y., Yao, Y., Hsu, K. J., Zheng, Y., Bao, et al
2026; 12 (23): eaec2641
- **Solution-state nanoconfined aggregation and microstructure evolution in blends of conjugated polymers and elastomers.** *Proceedings of the National Academy of Sciences of the United States of America*
Peña-Alcántara, A. E., Ghasemi, M., Cheng, C., Chaney, T. P., Coffey, A. H., Ponte, E., Ji, X., Michalek, L., Wu, Y., Schrock, M., Ngaruka, G., Gala, M. L., Zhu, et al
2026; 123 (18): e2516186123
- **Giant Molecule Acceptors Based on A-D-A-Type Small Molecule Acceptor Subunits for Medium-Bandgap Organic Solar Cells.** *ACS applied materials & interfaces*
Yin, K., Li, Y., Gong, Y., He, H., Qin, S., Zhang, J., Wu, Y., Meng, L., Li, X., Li, Y.
2025
- **Selectively Modulating the Donor and Acceptor Aggregation Behaviors Through Solid Additive Isomerization Engineering for Organic Solar Cells Exceeding 20% Efficiency.** *Angewandte Chemie (International ed. in English)*
Shi, K., Liu, H., Qin, S., Zhao, Q., Mou, X., Liang, J., Yao, J., Zhu, C., Zhong, L., Guo, J., Zhang, J., Wu, Y., Zhang, et al
2025: e202514004
- **High-performance binary organic solar cells by simultaneously enhancing exciton diffusion and charge transport in small molecule acceptors** *CHEMICAL ENGINEERING JOURNAL*
Kong, X., Zhang, X., Li, Z., Li, X., Wu, Y., Li, J., Li, A., Zhang, J., Li, Y., Sun, C.
2025; 507
- **Suppressed non-radiative loss and efficient hole transfer at a small highest occupied molecular orbital offset endows binary organic solar cells with 19.73% efficiency and a small efficiency-cost gap** *ENERGY & ENVIRONMENTAL SCIENCE*
Kong, X., Yang, N., Zhang, X., Zhang, J., Li, Z., Li, X., Wu, Y., Sun, R., Li, J., Li, A., Min, J., Yang, G., Sun, et al
2024
- **Impact of Dilute DIO Additive on Local Microstructure of Fluorinated, pNDI-Based Polymer Solar Cells.** *Advanced materials (Deerfield Beach, Fla.)*
Cheng, C., Wu, Y., Cendra, C., Schneider, S., Treiber, J., Agarwala, P., Gomez, E. D., Bao, Z., Takacs, C., Toney, M. F., Salleo, A.
2024: e2409502
- **Mesomeric control of the optoelectronic properties of polymerized small molecule acceptors** *JOURNAL OF MATERIALS CHEMISTRY A*
Sorbelli, D., Wu, Y., Bao, Z., Galli, G.
2024

- **Effect of Molecular Conformation on Intermolecular Interactions and Photovoltaic Performances of Giant Molecule Acceptors** *ADVANCED FUNCTIONAL MATERIALS*
Zhuo, H., Li, X., Qin, S., Zhang, J., Gong, Y., Wu, Y., Zou, T., Chen, Z., Yin, K., Yuan, M., Li, J., Meng, L., Li, et al
2024
- **19.36% Efficiency Organic Solar Cells Based on Low-Cost Terpolymer Donors with Simple Molecular Structures** *ADVANCED FUNCTIONAL MATERIALS*
Wu, X., Zhang, X., Zhang, J., Wu, Y., Li, J., Kong, X., Li, Z., Zhang, X., Li, X., Li, A., Yang, G., Sun, C.
2024
- **Tuning polymer-backbone coplanarity and conformational order to achieve high-performance printed all-polymer solar cells.** *Nature communications*
Wu, Y., Yuan, Y., Sorbelli, D., Cheng, C., Michalek, L., Cheng, H. W., Jindal, V., Zhang, S., LeCroy, G., Gomez, E. D., Milner, S. T., Salleo, A., Galli, et al
2024; 15 (1): 2170
- **Tuning the Mobility of Indacenodithiophene-Based Conjugated Polymers via Coplanar Backbone Engineering** *CHEMISTRY OF MATERIALS*
Ji, X., Cheng, H., Schuster, N. J., LeCroy, G. S., Zhang, S., Wu, Y., Michalek, L., Nguyen, B. T., Chiong, J. A., Schrock, M., Tomo, Y., Rech, J., Salleo, et al
2023; 36 (1): 256-265
- **Bulk Heterojunction Upconversion Thin Films Fabricated via One-Step Solution Deposition.** *ACS nano*
Hu, M., Belliveau, E., Wu, Y., Narayanan, P., Feng, D., Hamid, R., Murrietta, N., Ahmed, G. H., Kats, M. A., Congreve, D. N.
2023
- **Clinically Translatable Solid-State Dye for NIR-II Imaging of Medical Devices.** *Advanced science (Weinheim, Baden-Wuerttemberg, Germany)*
Li, D., Shi, H., Qi, Q., Chang, B., Jiang, Y., Qian, K., Guan, X., Kang, P., Ma, N., Zhang, Y., Zhang, Z., Shi, X., Qu, et al
2023: e2303491
- **Environmentally stable and stretchable polymer electronics enabled by surface-tethered nanostructured molecular-level protection.** *Nature nanotechnology*
Zheng, Y., Michalek, L., Liu, Q., Wu, Y., Kim, H., Sayavong, P., Yu, W., Zhong, D., Zhao, C., Yu, Z., Chiong, J. A., Gong, H., Ji, et al
2023
- **Shear-aligned large-area organic semiconductor crystals through extended pi-pi interaction** *JOURNAL OF MATERIALS CHEMISTRY C*
Zhang, S., Talhack, F., Jousselein-Oba, T., Bhat, V., Wu, Y., Lei, Y., Tomo, Y., Gong, H., Michalek, L., Zhong, D., Wu, C., Yassar, A., Mannsfeld, et al
2023
- **Effect of Molecular Weight on the Morphology of a Polymer Semiconductor-Thermoplastic Elastomer Blend** *ADVANCED ELECTRONIC MATERIALS*
Pena-Alcantara, A., Nikzad, S., Michalek, L., Prine, N., Wang, Y., Gong, H., Ponte, E., Schneider, S., Wu, Y., Root, S. E., He, M., Tok, J., Gu, et al
2023
- **High-Performance D-A Copolymer Donor Based on Difluoroquinoxaline A-Unit with Alkyl-Chlorothiophene Substituents for Polymer Solar Cells** *CCS CHEMISTRY*
Zhu, C., Hu, K., Meng, L., Kong, X., Lai, W., Qin, S., Qiu, B., Zhang, J., Zhang, Z., Wu, Y., Li, X., Li, Y.
2023
- **Realizing Intrinsically Stretchable Semiconducting Polymer Films by Nontoxic Additives** *ACS MATERIALS LETTERS*
Cheng, H., Zhang, S., Michalek, L., Ji, X., Luo, S., Cooper, C. B., Gong, H., Nikzad, S., Chiong, J. A., Wu, Y., Zheng, Y., Liu, Q., Zhong, et al
2022; 4 (11): 2328-2336
- **Tuning the Mechanical and Electric Properties of Conjugated Polymer Semiconductors: Side-Chain Design Based on Asymmetric Benzodithiophene Building Blocks** *ADVANCED FUNCTIONAL MATERIALS*
Liu, D., Lei, Y., Ji, X., Wu, Y., Lin, Y., Wang, Y., Zhang, S., Zheng, Y., Chen, Y., Lai, J., Zhong, D., Cheng, H., Chiong, et al
2022
- **Perovskite superlattices with efficient carrier dynamics.** *Nature*
Lei, Y., Li, Y., Lu, C., Yan, Q., Wu, Y., Babbe, F., Gong, H., Zhang, S., Zhou, J., Wang, R., Zhang, R., Chen, Y., Tsai, et al
2022; 608 (7922): 317-323

- **Highly Efficient Layer-by-Layer Processed Quaternary Organic Solar Cells with Improved Charge Transport and Reduced Energy Loss** *SOLAR RRL*
Li, S., Jia, Z., Ma, Q., Wu, Y., Meng, Q., Zhang, J., Qiu, B., Qiao, J., Li, Y.
2022
- **Topological supramolecular network enabled high-conductivity, stretchable organic bioelectronics.** *Science (New York, N.Y.)*
Jiang, Y., Zhang, Z., Wang, Y. X., Li, D., Coen, C. T., Hwaun, E., Chen, G., Wu, H. C., Zhong, D., Niu, S., Wang, W., Saberi, A., Lai, et al
2022; 375 (6587): 1411-1417
- **Twisted A-D-A Type Acceptors with Thermally-Activated Delayed Crystallization Behavior for Efficient Nonfullerene Organic Solar Cells** *ADVANCED ENERGY MATERIALS*
Wu, Y., Schneider, S., Yuan, Y., Young, R. M., Francese, T., Mansoor, I. F., Dudenas, P. J., Lei, Y., Gomez, E. D., DeLongchamp, D. M., Lipke, M. C., Galli, G., Wasielewski, et al
2022
- **High-brightness all-polymer stretchable LED with charge-trapping dilution.** *Nature*
Zhang, Z., Wang, W., Jiang, Y., Wang, Y., Wu, Y., Lai, J., Niu, S., Xu, C., Shih, C., Wang, C., Yan, H., Galuska, L., Prine, et al
2022; 603 (7902): 624-630
- **Impact of Molecular Design on Degradation Lifetimes of Degradable Imine-Based Semiconducting Polymers.** *Journal of the American Chemical Society*
Chiong, J. A., Zheng, Y., Zhang, S., Ma, G., Wu, Y., Ngaruka, G., Lin, Y., Gu, X., Bao, Z.
2022
- **Redox-Active Polymers Designed for the Circular Economy of Energy Storage Devices** *ACS ENERGY LETTERS*
Tan, S., Quill, T. J., Moser, M., LeCroy, G., Chen, X., Wu, Y., Takacs, C. J., Salleo, A., Giovannitti, A.
2021; 6 (10): 3450-3457
- **Effects of the Center Units of Small-Molecule Donors on the Morphology, Photovoltaic Performance, and Device Stability of All-Small-Molecule Organic Solar Cells** *SOLAR RRL*
Li, S., Ma, Q., Qiu, B., Meng, L., Zhang, J., Wu, Y., Zhang, Z., Zhang, Z., Li, Y.
2021
- **A Design Strategy for Intrinsically Stretchable High-Performance Polymer Semiconductors: Incorporating Conjugated Rigid Fused-Rings with Bulky Side Groups.** *Journal of the American Chemical Society*
Liu, D., Mun, J., Chen, G., Schuster, N. J., Wang, W., Zheng, Y., Nikzad, S., Lai, J., Wu, Y., Zhong, D., Lin, Y., Lei, Y., Chen, et al
2021
- **A delocalized cobaltoviologen with seven reversibly accessible redox states and highly tunable electrochromic behaviour.** *Chemical communications (Cambridge, England)*
Mansoor, I. F., Wozniak, D. I., Wu, Y., Lipke, M. C.
2020
- **Electrochemical Switching of a Fluorescent Molecular Rotor Embedded within a Bistable Rotaxane** *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY*
Wu, Y., Frasconi, M., Liu, W., Young, R. M., Goddard, W. A., Wasielewski, M. R., Stoddart, J.
2020; 142 (27): 11835-46
- **F4-TCNQ as an Additive to Impart Stretchable Semiconductors with High Mobility and Stability** *ADVANCED ELECTRONIC MATERIALS*
Mun, J., Kang, J., Zheng, Y., Luo, S., Wu, Y., Gong, H., Lai, J., Wu, H., Xue, G., Tok, J., Bao, Z.
2020
- **Reversible Symmetry-Breaking Charge Separation in a Series of Perylenediimide Cyclophanes** *JOURNAL OF PHYSICAL CHEMISTRY C*
Coleman, A. F., Chen, M., Zhou, J., Shin, J., Wu, Y., Young, R. M., Wasielewski, M. R.
2020; 124 (19): 10408-19
- **Fine-Tuning Semiconducting Polymer Self-Aggregation and Crystallinity Enables Optimal Morphology and High-Performance Printed All-Polymer Solar Cells.** *Journal of the American Chemical Society*
Wu, Y., Schneider, S., Walter, C., Chowdhury, A. H., Bahrami, B., Wu, H., Qiao, Q., Toney, M. F., Bao, Z.
2019

- **Choosing sides: unusual ultrafast charge transfer pathways in an asymmetric electron-accepting cyclophane that binds an electron donor** *CHEMICAL SCIENCE*
Zhou, J., Wu, Y., Roy, I., Samanta, A., Stoddart, J., Young, R. M., Wasielewski, M. R.
2019; 10 (15): 4282–92
- **Fine-Tuning Aromatic Stacking and Single-Crystal Photoluminescence Through Coordination Chemistry** *EUROPEAN JOURNAL OF ORGANIC CHEMISTRY*
Chen, C., Wu, Y., Li, H.
2019: 1778–83
- **Covalent Radical Pairs as Spin Qubits: Influence of Rapid Electron Motion between Two Equivalent Sites on Spin Coherence** *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY*
Wu, Y., Zhou, J., Nelson, J. N., Young, R. M., Krzyaniak, M. D., Wasielewski, M. R.
2018; 140 (40): 13011–21
- **Hybrid 2D Dion-Jacobson perovskites and application in solar cells**
Man, L., Ke, W., Pedesseau, L., Wu, Y., Katan, C., Even, J., Wasielewski, M., Stoumpos, C., Kanatzidis, M.
AMER CHEMICAL SOC.2018
- **ExTzBox: A Glowing Cyclophane for Live-Cell Imaging** *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY*
Roy, I., Bobbala, S., Zhou, J., Nguyen, M. T., Nalluri, S., Wu, Y., Ferris, D. P., Scott, E., Wasielewski, M. R., Stoddart, J.
2018; 140 (23): 7206–12
- **Shuttling Rates, Electronic States, and Hysteresis in a Ring-in-Ring Rotaxane** *ACS CENTRAL SCIENCE*
Lipke, M. C., Wu, Y., Roy, I., Wang, Y., Wasielewski, M. R., Stoddart, J.
2018; 4 (3): 362–71
- **Hybrid Dion-Jacobson 2D Lead Iodide Perovskites** *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY*
Mao, L., Ke, W., Pedesseau, L., Wu, Y., Katan, C., Even, J., Wasielewski, M. R., Stoumpos, C. C., Kanatzidis, M. G.
2018; 140 (10): 3775–83
- **X-Shaped Oligomeric Pyromellitimide Polyradicals** *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY*
Wu, Y., Han, J., Hong, M., Krzyaniak, M. D., Blackburn, A. K., Fernando, I. R., Cao, D. D., Wasielewski, M. R., Stoddart, J.
2018; 140 (1): 515–23
- **Probing Distance Dependent Charge-Transfer Character in Excimers of Extended Viologen Cyclophanes Using Femtosecond Vibrational Spectroscopy** *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY*
Wu, Y., Zhou, J., Phelan, B. T., Mauck, C. M., Stoddart, J., Young, R. M., Wasielewski, M. R.
2017; 139 (40): 14265–76
- **Exploring viscosity, polarity and temperature sensitivity of BODIPY-based molecular rotors** *PHYSICAL CHEMISTRY CHEMICAL PHYSICS*
Vysniauskas, A., Lopez-Duarte, I., Duchemin, N., Thanh-Truc Vu, Wu, Y., Budynina, E. M., Volkova, Y. A., Pena Cabrera, E., Ramirez-Ornelas, D. E., Kuimova, M. K.
2017; 19 (37): 25252–59
- **Mechanical-Bond-Protected, Air-Stable Radicals** *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY*
Sun, J., Liu, Z., Liu, W., Wu, Y., Wang, Y., Barnes, J. C., Hermann, K. R., Goddard, W. A., Wasielewski, M. R., Stoddart, J.
2017; 139 (36): 12704–9
- **Tunable White-Light Emission in Single-Cation-Templated Three-Layered 2D Perovskites (CH₃CH₂NH₃)(₄)Pb₃Br₁₀-xCl_x** *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY*
Mao, L., Wu, Y., Stoumpos, C. C., Traore, B., Katan, C., Even, J., Wasielewski, M. R., Kanatzidis, M. G.
2017; 139 (34): 11956–63
- **White-Light Emission and Structural Distortion in New Corrugated Two-Dimensional Lead Bromide Perovskites** *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY*
Mao, L., Wu, Y., Stoumpos, C. C., Wasielewski, M. R., Kanatzidis, M. G.
2017; 139 (14): 5210–15
- **Photoluminescent phenalenyl-type radical**
Anamimoghadam, O., Wu, Y., Pezzato, C., Minh Nguyen, Samanta, A., Gozem, S., Mosca, L., Krylov, A., Wasielewski, M., Stoddart, F.

AMER CHEMICAL SOC.2017

- **Spin frustrated organic triradical triangle**
Wu, Y., Krzyaniak, M., Wasielewski, M.
AMER CHEMICAL SOC.2017
- **Intramolecular Energy and Electron Transfer within a Diazaperopyrenium-Based Cyclophane** *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY*
Gong, X., Young, R. M., Hartlieb, K. J., Miller, C., Wu, Y., Xiao, H., Li, P., Hafezi, N., Zhou, J., Ma, L., Cheng, T., Goddard, W. A., Farha, et al
2017; 139 (11): 4107–16
- **Size-Matched Radical Multivalency** *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY*
Lipke, M. C., Cheng, T., Wu, Y., Arslan, H., Xiao, H., Wasielewski, M. R., Goddard, W. A., Stoddart, J.
2017; 139 (11): 3986–98
- **Spin Frustration in the Triradical Trianion of a Naphthalenediimide Molecular Triangle** *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY*
Wu, Y., Krzyaniak, M. D., Stoddart, J., Wasielewski, M. R.
2017; 139 (8): 2948–51
- **Enabling singlet fission by controlling intramolecular charge transfer in pi-stacked covalent terrylene diimide dimers** *NATURE CHEMISTRY*
Margulies, E. A., Miller, C. E., Wu, Y., Ma, L., Schatz, G. C., Young, R. M., Wasielewski, M. R.
2016; 8 (12): 1120–25
- **Dopant-Free Hole Transporting Polymers for High Efficiency, Environmentally Stable Perovskite Solar Cells** *ADVANCED ENERGY MATERIALS*
Liao, H., Tam, T., Guo, P., Wu, Y., Manley, E. F., Huang, W., Zhou, N., Soe, C., Wang, B., Wasielewski, M. R., Chen, L. X., Kanatzidis, M. G., Facchetti, et al
2016; 6 (16)
- **Chiral redox-active isosceles triangles for energy storage applications**
Nalluri, S., Liu, Z., Wu, Y., Hermann, K., Samanta, A., Kim, D., Stoddart, J.
AMER CHEMICAL SOC.2016
- **Enabling singlet fission by controlling intramolecular charge transfer in pi-stacked covalent terrylene diimide dimers**
Wasielewski, M., Margulies, E., Miller, C., Wu, Y., Ma, L., Young, R., Schatz, G.
AMER CHEMICAL SOC.2016
- **Radical multivalency via Goldilocks size matching of a diradical host and guest**
Lipke, M., Cheng, T., Wu, Y., Arslan, H., Wasielewski, M., Goddard, W., Stoddart, J.
AMER CHEMICAL SOC.2016
- **Sliding-Ring Catenanes** *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY*
Fernando, I. R., Frasconi, M., Wu, Y., Liu, W., Wasielewski, M. R., Goddard, W. A., Stoddart, J.
2016; 138 (32): 10214–25
- **Ultrafast Two-Electron Transfer in a CdS Quantum Dot-Extended-Viologen Cyclophane Complex** *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY*
Young, R. M., Jensen, S. C., Edme, K., Wu, Y., Krzyaniak, M. D., Vermeulen, N. A., Dale, E. J., Stoddart, J., Weiss, E. A., Wasielewski, M. R., Co, D. T.
2016; 138 (19): 6163–70
- **Chiral Redox-Active Isosceles Triangles** *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY*
Nalluri, S., Liu, Z., Wu, Y., Hermann, K. R., Samanta, A., Kim, D., Krzyaniak, M. D., Wasielewski, M. R., Stoddart, J.
2016; 138 (18): 5968–77
- **Supramolecular Gelation of Rigid Triangular Macrocycles through Rings of Multiple C-H center dot center dot center dot O Interactions Acting Cooperatively** *JOURNAL OF ORGANIC CHEMISTRY*
Liu, Z., Sun, J., Zhou, Y., Zhang, Y., Wu, Y., Nalluri, S., Wang, Y., Samanta, A., Mirkin, C. A., Schatz, G. C., Stoddart, J.
2016; 81 (6): 2581–88
- **Effects of Crystal Morphology on Singlet Exciton Fission in Diketopyrrolopyrrole Thin Films** *JOURNAL OF PHYSICAL CHEMISTRY B*

- Hartnett, P. E., Margulies, E. A., Mauck, C. M., Miller, S. A., Wu, Y., Wu, Y., Marks, T. J., Wasielewski, M. R.
2016; 120 (7): 1357–66
- **Oligorotaxane Radicals under Orders** *ACS CENTRAL SCIENCE*
Wang, Y., Frasconi, M., Liu, W., Sun, J., Wu, Y., Nassar, M. S., Botros, Y. Y., Goddard, W. A., Wasielewski, M. R., Stoddart, J.
2016; 2 (2): 89–98
 - **Photoinduced Charge and Energy Transfer within meta- and para-Linked Chlorophyll a-Perylene-3,4:9,10-bis(dicarboximide) Donor Acceptor Dyads** *JOURNAL OF PHYSICAL CHEMISTRY B*
Huang, G., Harris, M. A., Krzyaniak, M. D., Margulies, E. A., Dyar, S. M., Lindquist, R. J., Wu, Y., Roznyatovskiy, V. V., Wu, Y., Young, R. M., Wasielewski, M. R.
2016; 120 (4): 756–65
 - **Ring-fusion as a perylenediimide dimer design concept for high-performance non-fullerene organic photovoltaic acceptors** *CHEMICAL SCIENCE*
Hartnett, P. E., Matte, H., Eastham, N. D., Jackson, N. E., Wu, Y., Chen, L. X., Ratner, M. A., Chang, R. P. H., Hersam, M. C., Wasielewski, M. R., Marks, T. J.
2016; 7 (6): 3543–55
 - **Energy and Electron Transfer Dynamics within a Series of Perylene Diimide/Cyclophane Systems** *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY*
Ryan, S. T. J., Young, R. M., Henkelis, J. J., Hafezi, N., Vermeulen, N. A., Hennig, A., Dale, E. J., Wu, Y., Krzyaniak, M. D., Fox, A., Nau, W. M., Wasielewski, M. R., Stoddart, et al
2015; 137 (48): 15299–307
 - **An Electrochromic Instable Molecular Switch** *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY*
Sun, J., Wu, Y., Wang, Y., Liu, Z., Cheng, C., Hartlieb, K. J., Wasielewski, M. R., Stoddart, J.
2015; 137 (42): 13484–87
 - **Ultrafast Photoinduced Symmetry-Breaking Charge Separation and Electron Sharing in Perylenediimide Molecular Triangles** *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY*
Wu, Y., Young, R. M., Frasconi, M., Schneebeli, S. T., Spenst, P., Gardner, D. M., Brown, K. E., Wuerthner, F., Stoddart, J., Wasielewski, M. R.
2015; 137 (41): 13236–39
 - **Charge and Spin Transport in an Organic Molecular Square** *ANGEWANDTE CHEMIE-INTERNATIONAL EDITION*
Wu, Y., Nalluri, S., Young, R. M., Krzyaniak, M. D., Margulies, E. A., Stoddart, J., Wasielewski, M. R.
2015; 54 (41): 11971–77
 - **Redox Control of the Binding Modes of an Organic Receptor** *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY*
Frasconi, M., Fernando, I. R., Wu, Y., Liu, Z., Liu, W., Dyar, S. M., Barin, G., Wasielewski, M. R., Goddard, W. A., Stoddart, J.
2015; 137 (34): 11057–68
 - **Visible Light-Driven Artificial Molecular Switch Actuated by Radical-Radical and Donor-Acceptor Interactions** *JOURNAL OF PHYSICAL CHEMISTRY A*
Sun, J., Wu, Y., Liu, Z., Cao, D., Wang, Y., Cheng, C., Chen, D., Wasielewski, M. R., Stoddart, J.
2015; 119 (24): 6317–25
 - **Complexation of Polyoxometalates with Cyclodextrins** *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY*
Wu, Y., Shi, R., Wu, Y., Holcroft, J. M., Liu, Z., Frasconi, M., Wasielewski, M. R., Li, H., Stoddart, J.
2015; 137 (12): 4111–18
 - **Thiophene-based dyes for probing membranes** *ORGANIC & BIOMOLECULAR CHEMISTRY*
Lopez-Duarte, I., Chairatana, P., Wu, Y., Perez-Moreno, J., Bennett, P. M., Reeve, J. E., Boczarow, I., Kaluza, W., Hosny, N. A., Stranks, S. D., Nicholas, R. J., Clays, K., Kuimova, et al
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