

2022 Brown Symposium Poster Session

No.	Presenting Author	Poster Title and Authors	Affiliation
1	Mustafa Ahmed	Tetracyanocyclopentadienide-Based Stable Poly(aromatic) Anions Mustafa Ahmed, Dung T. Tran, John Putziger*, Zhifan Ke, Ashkan Abtahi, Zhiyang Wang, Ke Chen, Kai Lang, and Jianguo Mei	Purdue University, Department of Chemistry
2	Abhijith Anil Kumar	Synthesis and Structural Determination of Two Macrocyclic Histone Deacetylase Inhibitors Abhijith Anil Kumar and Mark Lipton	Purdue University
3	Ruth Anyaeche	Gas Phase Reactivity Study on Singlet Aryloxenium Cations Ruth Anyaeche, Xin Ma, Erlu Feng, Erynn Johnson, John J. Nash, and Hilikka Kenttämäa	Purdue University
4	Harshit Arora	SMART: Single Molecule Fluorescent Activation in Real Time for Molecular Computations and Sensing Harshit Arora and Gaurav Chopra	Department of Chemistry, Purdue University
5	Kristen Berger	Transition Metal Catalyzed Simmons–Smith Type Cyclopropanations Kristen Berger, Ray Martinez, and Christopher Uyeda	Purdue University
6	Pankaj Bhattarai	A Deoxyfluoroalkylation Strategy to Access Highly Substituted Trifluomethylated Arenes Pankaj Bhattarai, Suvajit Koley, and Ryan Altman	Purdue University
7	Hayden Bishop	Cobalt-Catalyzed Asymmetric Synthesis of Organozinc compounds Qiang Zhao, Hayden Bishop, and Chris Uyeda	Purdue University
8	Sourish Biswas	Intramolecular Vinylidene Addition to Alkyne via Zinc Transmetalation Sourish Biswas and Christopher Uyeda	Department of Chemistry, Purdue University
9	Victoria Boulos	Detection of the Tetrahedral Reaction Intermediate of the Reaction of Acetyl Chloride with Ethanol in Microdroplets via Laser Desorption/Ionization Mass Spectrometry Victoria M. Boulos, Jeremy Marcum, Hao Ran Lei, Yuyang Zhang, Hannah Natvig*, Benjamin Updike, Timothée L. Pourpoint, and Hilikka I. Kenttämäa	Purdue University

*Indicates undergraduate student authors

10	Kyle Brook	A Dinuclear Cobalt Catalyst for the Formation of Alkyl Diazenes Kyle B. Brook, Sumeet R. Sahoo, and Christopher Uyeda	Purdue University
11	Douglas Chan	Development of Prodrugs Targeting NSCLC Brain Metastases by Inhibition of P-glycoprotein at the Blood-Brain Barrier Douglas S. Chan, Christine Hycyna, and Jean Chmielewski	Department of Chemistry, Purdue University
13	Ke Chen	Printing Dynamic Color Palettes and Layered Textures Through Modeling-Guided Stacking of Electrochromic Polymers Ke Chen ¹ , Yukun Wu ¹ , Liyan You ¹ , Wenting Wu ¹ , Xiaokang Wang ² , Di Zhang ³ , James F. Elman ⁴ , Mustafa Ahmed ¹ , Haiyan Wang ³ , Kejie Zhao ² , and Jianguo Mei ¹	¹ Department of Chemistry, Purdue University ² School of Mechanical Engineering, Purdue University ³ School of Materials Engineering, Purdue University ⁴ Filmetrics, Inc., a KLA Company
14	Pedro de Andrade Horn	Nickel-Catalyzed Tandem Ueno-Stork Cyclization: Stereoselective 1,2-Dicarbofunctionalization of Cyclic Alkenes Pedro de Andrade Horn, Hunter S. Sims, and Mingji Dai	Purdue University
15	Andrew Encinas	Stereochemical Modifications to Cationic Amphiphilic Polyproline Helices to Enhance Targeted Intracellular Bacteria Treatment Andrew Encinas and Jean Chmielewski	Purdue University
16	Kiera Estes	Synthesis of Aqueous Copolymer Brushes: A Potential cryoEM tool for Structural Elucidation Kiera Estes, Thao-Vy Nyguen, and David Thompson	Purdue University
17	John Gulliver	Convergent Synthesis of (+)-Carambolaflavone A, an Antidiabetic Agent Using a Bismuth Triflate-catalyzed C-aryl Glycosylation John P. Gulliver, William L. Robinson, Hannah M. Simpson, and Arun K. Ghosh	Purdue University
18	Jaysan Janabel	Reductive Co- and Ni-catalyzed Vinylidene Transfer Reactions Using Photoredox Catalysis Jaysan Janabel and Christopher Uyeda	Department of Chemistry, Purdue University
19	Baiyang Jiang	Synthetic Studies Towards the Hamigerans with a [6-7-5] tricyclic skeleton Baiyang Jiang and Mingji Dai	Department of Chemistry, Center for Cancer Research, Purdue University

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20	Corey Johnson	A Refined Photo-switchable Cyclic Peptide Scaffold for Use in β -turn Activation Corey Johnson, John S. Harwood, Mark Lipton, and Jean Chmielewski	Purdue University
21	Michael Jorgensen	Co-assembled Coiled-coil Peptide Nanotubes with Enhanced Stability and Metal-dependent Cargo Loading Michael D. Jorgensen and Jean Chmielewski	Purdue University
22	Vibha Kanale	Asymmetric Cobalt-Catalyzed Ring Opening Reaction of Unstrained Heterocycles via β -X Elimination Vibha Kanale, Courtney Nuyen, and Christopher Uyeda	Purdue University
23	Zhifan Ke	Thermally Stable Doping by Aromatic Ionic Dopants Zhifan Ke ¹ , Mustafa Ahmed ¹ , Ashkan Abtahi ¹ , Wenting Wu ¹ , Shih-hsin Hsu ² , Kyle Baustert ^{1,3} , Michael Espenship ¹ , Liang Pan ² , Kenneth Graham ³ , Julia Laskin ¹ , Jianguo Mei ¹	¹ Department of Chemistry, Purdue University ² Department of Mechanical Engineering, Purdue University ³ Department of Chemistry, University of Kentucky
24	Kaif Rashid Khan	Synthesis of a Dimeric Inhibitor for Class II-HMG CoA Reductase to Target Gram-Positive Bacteria Kaif R. Khan, Miri Niedrauer, Matt Hostetler, Calvin Steusy, Cynthia Stauffacher, and Mark A. Lipton	Department of Chemistry, Purdue University
25	Nicholas Koehn	Diastereoselective Hydrogenation of Arenes using Amine Directing Groups Nicholas Koehn, Will Swann, and Christina Li	Purdue University
27	Hani Lakkis	Stereoselective Synthesis of Streptomyces Hormones: A Biocatalytic Approach to the SCB Family of γ -Butyrolactones Christina Martinez-Brokaw, Lauren E. Wilbanks, Hani G. Lakkis, Haylie E. Hennigan, Grace M. Buechel, and Elizabeth I. Parkinson	Purdue University, Department of Chemistry
28	Mingxin Liu	Catalytic Asymmetric Cyclopropanations with Dichloromethane Mingxin Liu, Nguyen Le*, and Christopher Uyeda	Purdue University
29	Donghui Ma	One-Carbon Insertion and Polarity Inversion Enabled a Pyrrole Strategy to the Total Syntheses of Pyridine-Containing Lycopodium Alkaloids: Complanadine A and Lycodine Donghui Ma	Purdue University

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30	Dake Mao	A Conformational Study of the 10-23 DNAzyme via Programmed DNA Self-Assembly Dake Mao, Qian Li, Qian Li, Pengfei Wang, and Chengde Mao	Department of Chemistry, Purdue University
31	Adam Mitrevski	Synthesis and Structural Determination of a Macrocyclic HIV-1 Protease Inhibitor Adam Mitrevski and Mark Lipton	Department of Chemistry, Purdue University
32	Christine Muli	Binding Site Discovery of a Selective Peptidomimetic Probe for Proteasome Ubiquitin Receptor, Rpn-13 Christine S. Muli, Dan Xie, Carol B. Post, and Darci J. Trader	Purdue University
33	Giulia Murbach de Oliveira	Continuous Flow Synthesis of A2E Guided by Design of Experiments and High Throughput Studies Giulia Murbach-Oliveira ¹ , Kalpita Banerjee ² , Marcelo M. Nociari ² , and David H. Thompson ¹	¹ Department of Chemistry, Purdue University) ² Weil Cornell Medical College, Cornell University
34	Oluwafemi Ogunlalu	Verdazyl and Nitronyl Radical-containing Polymers for Organic Electromagnetic Devices Oluwafemi Ogunlalu, Kuluni Perera, Hamas Tahir, Ho Joong Kim, Jianguo Mei, and Bryan W. Boudouris	Purdue University
35	Sandra Ordonez	Design and Synthesis of Bi-aryl Methylated Lactam Derivatives to Inhibit the BRD7 Bromodomain Function in Prostate Cancer Sandra C. Ordonez ¹ ; Chad Maschinot ¹ ; Emily C. Dykhuizen ^{1,2}	¹ Department of Medicinal Chemistry and Molecular Pharmacology, Purdue University, College of Pharmacy ² Purdue Center for Cancer Research, Purdue University
36	Victoria Paluzzi	Homo-polymerization of DNA Branched Kissing Loops (bKL) to form Complex Nanostructures Victoria E. Paluzzi and Chengde Mao	Purdue University
38	Kuluni Perera	Degradation Pathways of Conjugated Radical Cations Kuluni Perera, Wenting Wu, Liyan You, Michael Espenship, Matthias Zeller, Atheena Jenkins, Ashkan Abtahi, Jagrity Chaudhary, Zhiyang Wang, Ke Chen, Mustafa Ahmed, Na Gou, Kai Lang, and Jianguo Mei	Purdue University
39	Chris Rybak	Catalytic Azoarene Formation and Isomerization Enabled by Dinuclear Nickel Complexes Chris Rybak, John Andjaba, Ian Powers, Zhiyang Wang, Jianguo Mei, and Christopher Uyeda	Purdue University

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40	Andres Salazar-Chaparro	Interactome Mapping by Photoaffinity Labeling of Proteasomal Activator and FDA-approved Drug Miconazole Andres F. Salazar-Chaparro and Darci J. Trader	Department of Medicinal Chemistry and Molecular Pharmacology, Purdue University
41	Ashish Sharma	Design, Synthesis and X-ray Structural Studies of Potent HIV-1 Protease Inhibitors Containing C-4 Substituted Tricyclic Hexahydro-furofuran Derivatives as P2 Ligands Ashish Sharma, Satish Kovala, Dana Shahabi, Ajay K. Ghosh, Denver R. Hopkins, Monika Yadav, Megan E. Johnson, Irene T. Weber, Hiroaki Mitsuya, and Arun K. Ghosh	Purdue University
42	Hunter Sims	Merging Chemical Catalysis with Bioactive Natural Product Synthesis- A Case Study in the Total Synthesis of a Prostaglandin D2 Metabolite Hunter S. Sims ¹ , Pedro de Andrade Horn ¹ , Melissa Lim ^{1*} , Mingji Dai, Yan Xu ² , Robert H. Grubbs ² , and Ryota Isshiki ³	¹ Purdue University ² California Institute of Technology ³ Waseda University
43	Zachary St. John	Derivatization of a Tyrphostin Scaffold for Furin Inhibition Zachary St. John, Brandon Gaddis, and Jean A. Chmielewski	Purdue University, Department of Chemistry
44	Yecheng Wang	Flow Chemistry-Enabled Divergent and Enantioselective Total Syntheses of Massarinolin A, Purpurolicides B, D, E, 2,3-Deoxypurpurolicide C, and Structural Revision of Massarinolin A Ye-Cheng Wang, Chengsen Cui, and Mingji Dai	Purdue University
45	Wen Xiu	Nickel-Catalyzed Intramolecular Enantioselective [4 + 1]-Cycloaddition to Enable Monoterpene Alkaloid Synthesis Wen Xiu, Calvin Huffman, and Christopher Uyeda	Purdue University
46	Monika Yadav	Base Mediated Asymmetric [5+2] Cycloaddition: Application to Potent HIV-1 Protease Inhibitors Synthesis Monika Yadav and Arun K. Ghosh	Purdue University
47	Cuizheng Zhang	Programming DNA Self-Assembly by Geometry Cuizheng Zhang, Mengxi Zheng, Nadrian C. Seeman, Natasha Jonoska, and Chengde Mao	Department of Chemistry, Purdue University