



CURRICULUM VITAE

Qian Miao (繆 謙)

Contact Information

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Shatin, New Territories, Hong Kong, China
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Education

- Columbia University Aug. 2000 May 2005
Doctor of Philosophy and Master of Philosophy in chemistry
Advisor: Prof. Colin Nuckolls, Department of Chemistry
- University of Science and Technology of China Sept. 1995 Jul. 2000
Bachelor of Science in chemistry
Advisor: Prof. Tianpa You, Department of Chemistry

Positions

- Professor Since Aug. 2016
Department of Chemistry, the Chinese University of Hong Kong
- Head Since Aug. 2015
The Graduate Division of Chemistry, the Chinese University of Hong Kong
- Deputy Chairman Aug. 2015 Jul. 2018
Department of Chemistry, the Chinese University of Hong Kong
- Associate Professor Aug. 2012 Jul. 2016
Department of Chemistry, the Chinese University of Hong Kong
- Assistant Professor Aug. 2006 Jul. 2012
Department of Chemistry, the Chinese University of Hong Kong
- Postdoctoral Scholar Jun. 2005 May 2006
Department of Chemistry & Biochemistry, University of California, Los Angeles
Advisor: Prof. Fred Wudl

Academic Awards

- CSJ Lectureship Award 2020, the Chemical Society of Japan
- Outstanding Fellow of the Faculty of Science, the Chinese University of Hong Kong, 2019
- Croucher Senior Research Fellowship 2019-2020, Croucher Foundation, Hong Kong
- Research Excellence Award 2016-17, the Chinese University of Hong Kong
- Young Researcher Award 2011, the Chinese University of Hong Kong
- Science Faculty Exemplary Teaching Award 2007, the Chinese University of Hong Kong
- The Hammet Award, the Department of Chemistry, Columbia University, 2005
- Dissertation with distinction from Columbia University, 2005
- Dissertation with distinction from University of Science and Technology of China, 2000

Professional Activities

- Member of the International Advisory Board, the International Symposium on Novel Aromatic Compounds (ISNA), since 2017
- Member of Young Scientist Committee, Editorial Board, *Progress in Chemistry*, since 2019

- Principle Investigator,

- 10) "Tertiary Amines Differentiated from Primary and Secondary Amines by Active Ester-Functionalized Hexabenzoperylene in Field Effect Transistors", Li, C.; Zhang, T.; Zheng, B.; Xu, J.; **Miao, Q.*** *Chemistry – An Asian Journal*, **2019**, *14*, 1676–1680.
 - An invited paper for the S N -Conjugated Compounds for Molecular Materials.
- 11) "Crystal Engineering of Biphenylene-Containing Acenes for High-Mobility Organic Semiconductors", Wang, J.; Chu, M.; Fan, J.-X.; Lau, T.-K.; Ren, A.-M.; Lu, X.; **Miao, Q.*** *Journal of the American Chemical Society*, **2019**, *141*, 3589–3596.
- 12) "Stable and Efficient 3D-2D Perovskite-Perovskite Planar Heterojunction Solar Cell without Organic Hole Transport Layer", Zhang, T.; Long, M.; Qin, M.; Lu, X.; Chen, S.; Xie, F.; Gong, L.; Chen, J.; Chu, M.; **Miao, Q.**; Chen, Z.; Xu, W.; Liu, P.; Xie, W.; Xu, J. *Joule*, **2018**, *2*, 2706–2721.
- 13) "A Trefoil Macrocyclic Synthesized by 3-Fold Benzannulation", Yang, X.; Yuan, L.; Chen, Z.; Liu, Z.; **Miao, Q.*** *Organic Letters*, **2018**, *20*, 6952–6956.
- 14) "Halogenated Tetraazapentacenes with Electron Mobility as High as $27.8 \text{ cm}^2 \text{ V}^{-1} \text{ s}^{-1}$ in Solution-Processed N-channel Organic Thin Film Transistors", Chu, M.; Fan, J.-X.; Yang, S.; Liu, D.; Ng, C. F.; Dong, H.; Ren, A.-M.*; **Miao, Q.*** *Advanced Materials*, **2018**, *30*, 1803467.
- 15) "From Phenanthrylene Butadiynylene Macrocycles to S-Heterocycloarenes", Yang, Y.; Chu, M.; **Miao, Q.*** *Organic Letters*, **2018**, *20*, 4259–4262.
- 16) "Toward Negatively Curved Carbons", Pun, S. H.; **Miao, Q.*** *Accounts of Chemical Research*, **2018**, *51*, 1630–1642.
 - An invited review
- 17) "K -Stacks of Hexabenzoperylenes as a Platform for Chemical and Biological Sensing", Li, C.; Wu, H.; Zhang, T.; Liang, Y.; Zheng, B.; Xia, J.; Xu, J.; **Miao, Q.*** *Chem*, **2018**, *4*, 1416–1426.
- 18) "Copolymer dielectrics with balanced chain-packing density and surface polarity for high-performance flexible organic electronics", Ji, D.; Li, T.*; Zou, Y.; Chu, M.; Zhou, K. Liu, J.; Tian, G.; Zhang, Z.; Zhang, X.; Li, L.; Wu, D.; Dong, H.; **Miao, Q.**; Fuchs, H.*; Hu, W.* *Nature Communications*, **2018**, *9*, 2339.
- 19) "Recent Progress in Chemistry of Multiple Helicenes", Li, C.; Yang, Y.; **Miao, Q.*** *Chemistry – An Asian Journal*, **2018**, *13*, 884–894.
 - An invited Focus Review
 - Selected as part of *Readers' Choice 2019*
 - A Highly Cited Paper identified by the Essential Science Indicators (ESI)
- 20) "Connecting Two Phenazines with a Four-Membered Ring: Synthesis, Properties and Applications of Cyclobuta[1,2-b:3,4-b']diphenazines", Yang, S.; Chu, M.; **Miao, Q.***, *Journal of Materials Chemistry C*, **2018**, *6*, 3651–3657.
 - An invited paper for the themed issue celebrating 50 years of Professor Fred Wudl's contributions to the field of organic semiconductors
- 21) "A Dipleadiene-Embedded Aromatic Saddle Consisting of 86 Carbon Atoms", Pun, S. H.; Chan, C. K.; Luo, J.; Liu, Z.; **Miao, Q.*** *Angewandte Chemie International Edition*, **2018**, *57*, 1851–1856.
 - A Highly Cited Paper identified by the Essential Science Indicators (ESI)
- 22) "Recent Progress in Interface Engineering of Organic Thin Film Transistors with Self-Assembled Monolayers", Liu, D.*; **Miao, Q.***, *Materials Chemistry Frontiers*, **2018**, *2*, 11–21.
 - An invited review for the themed collection of "Molecular Materials and Devices"
- 23) "A Twisted Nanographene Consisting of 96 Carbon Atoms", Cheung, K. Y.; Chan, C. K.; Liu, Z.; **Miao, Q.*** *Angewandte Chemie International Edition*, **2017**, *56*, 9003–9007.
 - Selected as a Hot Paper

- Cover of *Angewandte Chemie International Edition* **2017**, volume 56, issue 31.
- 24) "N-Phenylated N-Heteroacenes: Synthesis, Structures and Properties", Gu, X.; Shan, B.; He, Z.; **Miao, Q.*** *ChemPlusChem*, **2017**, 82, 1034–1038.
 - An invited paper for the special issue of *Novel Aromatics: From Synthesis to Applications*
 - 25) "Synthesis, Structure and Properties of Tetrabenzo[7]circulene", Gu, X.; Li, H.; Shan, B.; Liu, Z.; **Miao, Q.*** *Organic Letters*, **2017**, 19, 2246–2249.
 - 26) "From Tetrabenzoheptafulvalene to sp^2 Carbon Nano-rings", Cheung, K. Y.; Yang, S.; **Miao, Q.*** *Organic Chemistry Frontiers*, **2017**, 4, 699–703.
 - An invited paper for the special issue of *Novel π -electron molecular scaffolds*
 - Selected as an Organic Chemistry Frontiers HOT article for 2017
 - 27) "Molecular Design of N-type Organic Semiconductors for Organic Thin Film Transistors", Shan, B.; **Miao, Q.*** *Tetrahedron Letters*, **2017**, 58, 1903–1911.
 - An invited review
 - 28) "Engineering Thin Films of a Tetrabenzoporphyrin toward Efficient Charge-Carrier Transport: Selective Formation of a Brickwork Motif", Takahashi, K.; Shan, B.; Xu, X.; Yang, S.; Koganezawa, T.; Kuzuhara, D.; Aratani, N.; Suzuki, M.*; **Miao, Q.***; Yamada, H.* *ACS Applied Materials & Interfaces*, **2017**, 9, 8211–8218.
 - 29) "Aggregation-Induced Emission: Mechanistic Study of Clusteroluminescence of Tetrathienylethene", Viglianti, L.; Leung, N. L. C.; Xie, N.; Gu, X.; Sung, H. H. Y.; **Miao, Q.***; Williams, I. D.; Licandro, E.; Tang, B. Z.* *Chemical Science*, **2017**, 8, 2629–2639.
 - 30) "Twisted Polycyclic Arenes from Tetranaphthylidiphenylbenzenes by Controlling the Scholl Reaction with Substituents", Yang, Y.; Yuan, L.; Shan, B.; Liu, Z.; **Miao, Q.*** *Chemistry – A European Journal*, **2016**, 22, 18620–18627.
 - 31) "Benzo[4,5]cyclohepta[1,2-*b*]fluorene: an Isomeric Motif for Pentacene Containing Linearly Fused Five-, Six- and Seven-membered Rings", Yang, X.; Shi, X.; Aratani, N.; Gonçalves, T. P.; Huang, K.-W.; Yamada, H.; Chi, C.*; **Miao, Q.*** *Chemical Science*, **2016**, 7, 6176–6181.
 - Highlighted by *Synfacts*, **2016**, 12, 916.
 - 32) "Studies toward the Synthesis of Hepta-*peri*-heptabenzo-[7]circulene", Yang, X.; **Miao, Q.*** *Synlett*, **2016**, 27, 2091–2094.
 - An invited paper for the Cluster issue on *Non-planar Polyaromatic Compounds*.
 - 33) "Electron Mobility Exceeding $10\text{ cm}^2\text{V}^{-1}\text{s}^{-1}$ and Band-like Charge Transport in Solution-processed N-channel Organic Thin Film Transistors", Xu, X.; Yao, Y.; Shan, B.; Gu, X.; Liu, D.; Liu, J.; Xu, J.; Zhao, N.; Hu, W.; **Miao, Q.***, *Advanced Materials*, **2016**, 28, 5276–5283.
 - Highlighted by *Materials Views China*.
 - 34) "Extension of N-Heteroacenes through a Four-Membered Ring", Yang, S.; Shan, B.; Xu, X.; **Miao, Q.*** *Chemistry – A European Journal*, **2016**, 22, 6637–6642.
 - Highlighted by *Synfacts*, **2016**, 12, 684.
 - 35) "Boosting the electron mobility of solution-grown organic single crystals via reducing the amount of polar solvent residues", Xue, G.; Wu, J.; Fan, C.; Liu, S.; Huang, Z.; Liu, Y.; Shan, B.; Xin, H. L.; **Miao, Q.***; Chen, H.; Li, H. *Materials Horizons*, **2016**, 3, 119–123.
 - 36) "Synthesis, Molecular Packing and Thin Film Transistors of Dibenzo[*a,m*]rubicenes", Gu, X.; Xu, X.; Li, H.; Liu, Z.; **Miao, Q.*** *Journal of the American Chemical Society*, **2015**, 137, 16203–16208.
 - Highlighted by *Synfacts*, **2016**, 12, 258.
 - 37) "Solution-Processed Ambipolar Organic Thin Film Transistors by Blending p- and n-Type Semiconductors: Solid Solution versus Microphase Separation", Xu, X.; Xiao, T.; Gu, X.; Yang, X.; Kershaw, S. V.; Zhao, N.; Xu, J.; **Miao, Q.*** *ACS Applied Materials & Interfaces*, **2015**, 7, 28019–28026.
 - An invited paper for the special issue of "Advances towards Electronic Applications in Organic Materials"

- 53) "Facile Passivation of Solution-Processed InZnO Thin-Film Transistors by Octadecylphosphonic Acid Self-Assembled Monolayers at Room Temperature", Xu, W.; Liu, D.; Wang, H.; Ye, L.; **Miao, Q.**; Xu, J.* *Applied Physics Letters*, **2014**, *104*, 173504/1 173504/5.
- 54) "Ternary Blend Bulk Heterojunction Photovoltaic Cells with an Ambipolar Small Molecule as the Cascade Material", Ye, L.; Xia, H.; Xu, J.*; **Miao, Q.*** *RSC Advances*, **2014**, *4*, 1087 1092.
- 55) "Conjugated Macrocycles of Phenanthrene: a New Segment of [6,6]-Carbon Nanotube and Solution-Processed Organic Semiconductors", He, Z.; Xu, X.; Zheng, X.; Ming, T.; **Miao, Q.*** *Chemical Science*, **2013**, *4*, 4525 4531.
- 56) "Revisiting Zethrene: Synthesis, Reactivity and Semiconductor Property", Shan, L.; Liang, Z.; Xu, X.; Tang, Q.; **Miao, Q.*** *Chemical Science*, **2013**, *4*, 3294 3297.
 - Highlighted by *Synfacts*, **2013**, *9*, 953.
- 57) "Self-Assembled Monolayers of Phosphonic Acids with Enhanced Surface Energy for High-Performance Solution-Processed N-Channel Organic Thin Film Transistors", Liu, D.; Xu, X.; Su, Y.; He, Z.; Xu, J.; **Miao, Q.*** *Angewandte Chemie International Edition*, **2013**, *52*, 6222 6227.
- 58) "Quantitative Determination of Scattering Mechanism of large-area graphene on conventional and SAM-functionalized Substrates at Room Temperature", Chen, K.; Wan, X. Liu, D.; Kang, Z.; Xie, W.; Chen, J.; **Miao, Q.**; Xu, J.* *Nanoscale*, **2013**, *5*, 5784 5793.
- 59) "Ambipolar Organic Semiconductors from Electron-Accepting Cyclopenta-Fused Anthracene", Xia, H.; Liu, D.; Xu, X.; **Miao, Q.*** *Chemical Communications*, **2013**, *49*, 4301 4303.
 - An invited paper for *Chemical Communications* Emerging Investigators issue 2013
- 60) "Curved Polycyclic Aromatic Molecules t F -Isoelectronic to Hexabenzocoronene" Luo, J.; Xu, X.; Mao, R. **Miao, Q.*** *Journal of the American Chemical Society*, **2012**, *134*, 13796 13803.
- 61) "Highly Electron-Deficient Hexaazapentacenes and Their Dihydro Precursors" He, Z.; Mao, R.; Liu D.; **Miao, Q.*** *Organic Letters*, **2012**, *14*, 4190 4193.
- 62) "High-Quality Large-Area Graphene from Dehydrogenated Polycyclic Aromatic Hydrocarbons", Wan, X.; Chen, K.; Liu, D.; Chen, J.; **Miao, Q.**; Xu, J.* *Chemistry of Materials*, **2012**, *24*, 3906 3915.
- 63) "Polymer Pen Lithography Using Dual-Elastomer Tip Arrays", Xie, Z.; Shen, Y.; Zhou, X.; Yang, Y.; Tang, Q.; **Miao, Q.**; Su, J.; Wu, H.; Zheng, Z.* *Small*, **2012**, *8*, 2664 2669.
- 64) "The Application of a High-k Polymer in Flexible Low-Voltage Organic Thin-Film Transistors", Li, J.; Liu, D.; **Miao, Q.**; Yan, F.* *Journal of Materials Chemistry*, **2012**, *22*, 15998 16004.
- 65) "Hydrogen-Bonded Dihydrotetraazapentacenes" He, Z.; Liu D.; Mao, R.; Tang, Q.; **Miao, Q.*** *Organic Letters*, **2012**, *14*, 1050 1053.
- 66)⁶ "Induced Crystallization of Rubrene with Diazapentacene as the Template" Liu, D.; Li, Z.; He, Z.; Xu, J. **Miao, Q.*** *Journal of Materials Chemistry*, **2012**, *22*, 4396 4400.
 - An invited article for the themed issue on Organic Optoelectronic Materials
- 67) ⁶N-heteropentacenes and .5 reW* nBT/F1 11 Tf1 0 0 1 112.6 183.6 Tm0 g0 G[(N)] TJETQ/4 0 595.5 841.5 r

- 70) "Single crystal n-channel field effect transistors from solution-processed silylethynylated tetraazapentacene" Wang, C.; Liang, Z.; Liu, Y.; Wang, X.; Zhao, N.; **Miao, Q.***; Hu, W.*; Xu, J.* *Journal of Materials Chemistry*, **2011**, 21, 15201–15204.
- 71) "Degradation Mechanism of Organic Solar Cells with Aluminum Cathode" Wang, M.; Xie, F.; Du, J.; Tang, Q.; Zheng, S.; **Miao, Q.**; Chen, J.; Zhao, N.; Xu, J.* *Solar Energy Materials & Solar Cells*, **2011**, 95, 3303–3310.
- 72) "Switching of Non-Helical Overcrowded Tetrabenzoheptafulvalene Derivatives" Luo, J.; Song, K.; Gu, F.; **Miao, Q.*** *Chemical Science*, **2011**, 2, 2029–2034.
- 73) "High hole mobility of 1,2-bis[4'-(diphenylamino)biphenyl-4-yl]-1,2-diphenylethene in field effect transistor" Zhao, Z.; Li, Z.; Lam, J. W. Y.; Maldonado, J.-L.; Ramos-Ortiz, G.; Liu, Y.; Yuan, W.; Xu, J.; **Miao, Q.***; Tang, B. Z.* *Chemical Communications*, **2011**, 47, 6924–6926.
- 74) "Thermotropic Liquid Crystals Based on 1,8,9,16-Tetrasubstituted Tetraphenylenes and Their Structure Property Relationship Studies" Hau, C.-K.; Chui, S. S.-Y.; Lu, W.; Che, C.-M.; Cheng, P.-S.; Mak, T. C. W.; **Miao, Q.**; Wong, H. N. C.* *Chemical Science*, **2011**, 2, 1068–1075.
- 75) "Soluble and Stable N-Heteropentacenes with High Field Effect Mobility" Liang, Z.; Tang, Q.; Xu, J.; **Miao, Q.*** *Advanced Materials*, **2011**, 23, 1535–1539.
 • A Highly Cited Paper identified by the Essential Science Indicators (ESI)
- 76) "N-Substituted G-Deficient Pentacenequinones: Synthesis, Electronic Structures, Molecular Packing and Thin Film Transistors" Liang, Z.; Tang, Q.; Liu, J.; Li, J.; Yan, F.; **Miao, Q.*** *Chemistry of Materials*, **2010**, 22, 6438–6443.
- 77) "Performance and stability improvement of P3HT:PCBM based solar cells by thermally evaporated chromium oxide (CrOx) interfacial layer" Wang, M.; Tang, Q.; An, J.; Xie, F.; Chen, J.; Zheng, S.; Wong, K. Y.; **Miao, Q.**; Xu, J.* *ACS Applied Materials & Interfaces*, **2010**, 2, 2699–2072.
- 78) "Induced Crystallization of Rubrene in Thin Film Transistors" Li, Z.; Du, J.; Tang, Q.; Wang, F.; Xu, J.; Yu, J. C.; **Miao, Q.*** *Advanced Materials*, **2010**, 22, 3242–3246.
 • Inside front cover of *Advanced Materials*, **2010**, volume 22, issue 30.
- 79) "N-Heteroquinones: Quadruple Weak Hydrogen Bonds and N-Channel Transistors" Tang, Q.; Liang, Z.; Liu, J.; Xu, J.; **Miao, Q.*** *Chemical Communications*, **2010**, 46, 2977–2979.
- 80) "A Meaningful Analogue of Pentacene: Charge Transport, Polymorphs and Electronic Structures of Dihydrodiazapentacene" Tang, Q.; Zhang, D.; Wang, S.; Ke, N.; Xu, J.; Yu, J. C.; **Miao, Q.*** *Chemistry of Materials*, **2009**, 21, 1400–1405.
- 81) "Benzenoid and Quinonoid Nitrogen-Containing Heteropentacenes" Tang, Q.; Liu, J.; Chan, H.S.; **Miao, Q.*** *Chemistry – A European Journal*, **2009**, 15, 3965–3969.
 • Featured in the front page of *Chemistry – A European Journal*, **2009**, volume 15, issue 16.
- 82) "Transistors from a Conjugated Macrocyclic Molecule: Field and Photo Effects" Zhao, W.; Tang, Q.; Chan, H.S.; Xu, J.; Lo, K.Y.; **Miao, Q.*** *Chemical Communications*, **2008**, 4324–4326.
- 83) "Unexpected Photooxidation of H-Bonded Tetracene" Liang, Z.; Zhao, W.; Wang, S.; Tang, Q.; Lam, S.-C.; **Miao, Q.*** *Organic Letters*, **2008**, 10, 2007–2010.

Publications from Graduate and Postdoctoral studies

(*: corresponding author)

- 84) "Photoresponsive nanoscale columnar transistors" Guo, X.*; Xiao, S.; Matthew, M.; **Miao, Q.**; Steigerwald, M.L.; Nuckolls, C.* *Proceedings of the National Academy of Science of the United States*, **2009**, 106, 691–696.
- 85) "Hexathiapentacene: Structure, Molecular Packing and Thin-Film Transistors", Briseno, A.L.; **Miao, Q.**; Ling, M.-M.; Reese, C.; Meng, H.*; Bao, Z.*; Wudl, F.* *Journal of the American Chemical Society*, **2006**, 128, 15576–15577.

- 86) "Chemical Complementarity in the Contacts for Nanoscale Organic Field-Effect Transistors" Tulevski, G.S.; **Miao, Q.**; Afzali, A.; Graham, T.; Kagan, C.*; Nuckolls, C.* *Journal of the American Chemical Society*, **2006**, 128, 1788–1789.
- 87) "Organization of Acenes with a Cruciform Assembly Motif " **Miao, Q.**; Chi, X.; Xiao, S.; Zeiss, R.; Lefenfeld, M.; Kloc, C.; Steigerwald, M.; Siegrist, T.; Nuckolls, C.* *Journal of the American Chemical Society*, **2006**, 128, 1340–1345.
- 88) "Molecular Wires from Contorted Aromatics" Xiao, S.; Myers, M.; **Miao, Q.**; Sanaur, S.; Pang, K.; Steigerwald, M.; Nuckolls, C.* *Angewandte Chemie International Edition*, **2005**, 44, 7390–7394.
 • Front cover of *Angewandte Chemie International Edition* **2005**, volume 44, issue 45.
- 89) "Self-Assembly and Electronics of Dipolar Linear Acenes", **Miao, Q.**; Lefenfeld, M.; Nguyen, T.-Q.; Siegrist, T.; Kloc, C.; Nuckolls, C.* *Advanced Materials* **2005**, 17(4), 407–412.
- 90) "A Recyclable Electrochemical Alkylation in Water" Zha, Z.; Hui, A.; Zhou, Y.; **Miao, Q.***; Wang, Z.*; Zhang, H. *Organic Letters* **2005**, 7, 1903–1905.
- 91) "Barbier-type reaction mediated with tin nanoparticles in water" Zha, Z.; Qiao, S.; Jiang, J.; Wang, Y.; **Miao, Q.***; Wang, Z.* *Tetrahedron*, **2005**, 61, 2521–2527.
- 92) "Chemoselective carbonyl benzylation mediated by Zn/CdCl₂/InCl₃ in tap water", Zhou, C.; Jiang, Y.; Zhou, Y.; Xie, Z.; Miao, Q.; Wang, Z. *Letters in Organic Chemistry*, **2005**, 2, 61–64.
- 93) "Attaching Organic Semiconductors to Gate Oxides: In Situ Assembly of Monolayer Field Effect Transistors" Tulevski, G.S.; **Miao, Q.**; Fukuto, M.; Abram, R.; Ocko, B.; Pindak, P.; Kagan, C.*; Nuckolls, C.* *Journal of the American Chemical Society*, **2004**, 126, 15048–15050.
- 94) "Resonant Raman Scattering in Nanoscale Pentacene Films, " He, R.*; Dujovne, I.; Chen, L.; **Miao, Q.**; Hirjibehedin, C.F.; Pinczuk, A.; Nuckolls, C.; Kloc, C.; Ron, A. *Applied Physics Letters*, **2004**, 84, 987–989.
- 95) "Alkylation of carbonyl compounds mediated by nanometer-sized bismuth in water", Xu, X.; Zha, Z. **Miao, Q.***; Wang, Z.* *Synlett*, **2004**, 7, 1171–1174.
- 96) "Synthesis, Assembly, and Thin Film Transistors of Dihydrodiazapentacene: an Isostructural Motif for Pentacene", **Miao, Q.**; Nguyen, T.-Q.; Someya, T.; Blanchet, G.B.; Nuckolls, C.* *Journal of the American Chemical Society*, **2003**, 125, 10284–10287.

Invited Presentations

Invited Lectures at Conferences

- 1) *Symposium: Designed π Systems - Synthesis, Properties, Theory and Function, the 2020 International Chemical Congress of Pacific Basin Societies (Pacifichem 2020)*, Honolulu, Hawaii, USA, Dec. 15–20, 2020.
- 2) *The 4th International Symposium on the Synthesis and Application of Curved Organic π -Molecules and Materials (CURO- π IV)*, Beijing, China, Sept. 21–24, 2020.
- 3) *International Meeting on Emerging Macromolecular Materials (POLYMAT Spotlight)*, San Sebastian, Spain, Jun. 23–26, 2020.
- 4) "A General Supramolecular Platform for OFET-Based Chemical and Biological Sensors", *The 2nd National Symposium on Organic Field Effect Transistors*, Shenzhen, Dec. 12–15, 2019.
- 5) "Synthesis of Carbon Nanobelts", *The 1st Chem-Reaxys-HKCS symposium*, Hong Kong, Nov. 23, 2019.
- 6) "A General Supramolecular Platform for OFET-Based Chemical and Biological Sensors", *International Conference on Optoelectronic and Microelectronic Technology and Application 2019*, Nanjing, Nov. 7–9, 2019.
- 7) "Synthesis of Carbon Nanobelts", *The 1st Clar-Müllen Carbon Symposium (CMC)*, X 1 China, Oct. 11–12, 2019.

- 8) "Crystal Engineering of Organic Semiconductors for High-Performance Organic Thin Film Transistors", *China-Germany Joint Symposium on Conjugated Molecules and Macromolecules in Functional Materials*, Beijing, China, Oct. 6-9, 2019.
- 9) "From Curved Polycyclic Aromatics to Electronic Materials" (keynote lecture), the NSFC-BHAE Joint Symposium on Chemistry for New Frontiers, Hong Kong, China, July 29-31, 2019.
- 10) "From Curved Polycyclic Aromatics to Electronic Materials", *Yanqi Molecular Science Symposium*, Beijing, July 5-6, 2019.
- 11) "From Curved Polycyclic Aromatics to Materials", *the International Conference on Materials for Advanced Technologies (ICMAT 2019)*, Singapore, Jun. 23-28, 2019.
- 12) "Synthesis and Applications of Curved Polycyclic Aromatics" (plenary lecture), *the 15th Sino-US Chemistry Professors Conference*, Xinxiang, China, June 16-19, 2019.
- 13) "Synthesis and Applications of Curved Polycyclic Aromatics", *The 2nd Manchester-Shanghai-Hong Kong Trilateral Symposium on Chemistry Frontiers*, Hong Kong, China, Dec. 17-19, 2018.
- 14) "A Nine-Year Journey from 0.1 cm²/Vs to 27.8 cm²/Vs", *The 1st National Symposium on Organic Field Effect Transistors*, Tianjin, China, Dec. 13-15, 2018.
- 15) "Interface Engineering and Crystal Engineering for High-Performance Organic Thin Film Transistors", *The 11th National Symposium on Electronic Process in Organic Solids*, Qingdao, China, Oct. 26-29, 2018.
- 16) "Self-Assemblies and Devices of Curved Organic Semiconductors", at *the 2018 China Mainland-Taiwan-Hong Kong Symposium on Polymer Liquid Crystals and Supramolecular Ordered Structures*, Qingdao, China, Aug. 7-10, 2018.
- 17) "Toward Negatively Curved Carbons", *The 2nd From Carbon-Rich Molecules to Carbon-Based Materials Conference*, Nassau, Bahamas, Jun. 7-10, 2018.
- 18) "Interface Engineering and Crystal Engineering for High-Performance Organic Thin Film Transistors", *ACS Publications Technical Forum on "Nano-, Meso-, and Microstructured Materials for Energy, Electronics and Biotechnology"*, Shenzhen, China, Apr. 15-18, 2018.
- 19) "Synthesis and Applications of Curved Polycyclic Aromatics", *the 7th Lingnan Symposium on Organic Chemistry*, Guangzhou, China, Nov. 10-13, 2017
- 20) "Recent Progress in Organic Chemistry of Negatively Curved Nanographenes", *Shanghai-Hong Kong Forum on Chemical Synthesis*, Shanghai, China, Sept. 1-2, 2017
- 21) "Recent Progress in Organic Chemistry of Negatively Curved Nanographenes", *International ERATO Itami Molecular Nanocarbon Symposium 2017*, Nagoya, Japan, Aug. 2-4, 2017.
- 22) "Recent Progress in Organic Chemistry of Negatively Curved Nanographenes", *The 17th International Symposium on Novel Aromatics (ISNA 17)*, Stony Brook, NY, USA, July 23-28, 2017.
- 23) "Thin Film Transistors of Non-Planar Organic Semiconductors and Their Applications for Chemical Sensing", *International Workshop of Recent Advances in Organic Bioelectronics*, Hong Kong, China, Jun. 8-10, 2017.
- 24) "Interface Engineering and Crystal Engineering for High-Performance Organic Thin Film Transistors", *Symposium C: Functionalized π -Electron Materials and Devices, the International Conference on Materials for Advanced Technologies (ICMAT 2017)*, Singapore, Jun. 18-23, 2017.
- 25) "Synthesis and Applications of Novel Non-planar Polycyclic Arenes", the 1st Manchester-Shanghai-Hong Kong Trilateral Symposium on Chemistry Frontiers, Shanghai, China, Apr. 3-4, 2017.
- 26) "Synthesis of Novel Non-planar Polycyclic Arenes by Controlling Scholl Reactions", *The 14th International Symposium for Chinese Organic Chemists (ISCOC) and the 11th International Symposium for Chinese Inorganic Chemists (ISCIC)*, Singapore, Dec. 8-10, 2016.
- 27) "From Nonplanar Polycyclic Arenes to Carbon-rich Materials" (keynote lecture), *The 12th IUPAC International Conference on Novel Materials and their Synthesis (NMS-XII)*, Changsha, China, Oct. 14-19, 2016.

- 28) "Novel Non-planar Polycyclic Arenes Synthesized By Controlling Scholl Reactions", *The 2nd International Symposium on the Synthesis and Application of Curved Organic π -Molecules and Materials (CURO- π II)*, Eugene, Oregon, USA, Sept. 12-14, 2016.
- 29) "Novel Self-assembled Monolayers and High-Performance Organic Thin Film Transistors" (plenary lecture), at *the 2016 China Mainland-Taiwan-Hong Kong Symposium on Polymer Liquid Crystals and Supramolecular Ordered Structures*, Nanchang, China, Aug. 2-5, 2016.
- 30) "Recent Progress of n-channel Organic Thin Film Transistors", *Symposium 20: Photonic and Electronic Functional Devices*; and "Synthesis of Negatively Curved Polycyclic Arenes", *Symposium 9: Organic Chemistry, the 30th Annual Meeting of Chinese Chemical Society*, Dalian, China, July 1-4, 2016.
- 31) "From Non-Planar Polycyclic Arenes to Carbon-Rich Materials", *Symposium 25: Designed π Systems - Synthesis, Properties, Theory and Function, the 2015 International Chemical Congress of Pacific Basin Societies (Pacifichem 2015)*, Honolulu, Hawaii, USA, Dec. 15-20, 2015.
- 32) "Molecular Assemblies in High-Performance Organic Thin Film Transistors", *The 10th National Symposium on Electronic Process in Organic Solids*, Beijing, China, Aug. 7-10, 2015.
- 33) " -Systems and Materials by Molecular Engineering of Pentacene and HBC" *Symposium U: Functional π -Systems, Materials and Devices, the International Conference on Materials for Advanced Technologies (ICMAT)*, Singapore, Jun. 28 - Jul. 3, 2015.
- 34) "Self-Assembled Monolayers for High-Performance Organic Thin Film Transistors", *The 13th International Conference of Polymers for Advanced Technologies (PAT2015)*, Hangzhou, China, Jun. 25-28, 2015.
- 35) "Novel Curved Polycyclic Arenes by Tailoring HBC: Synthesis, Assemblies and Devices", at *International Symposium on the Synthesis and Application of Curved Organic π -Molecules and Materials*, Kyoto, Japan, Oct. 19-21, 2014.
- 36) "Self-assembled Monolayers of Non-planar Polycyclic Conjugated Molecules and Novel Phosphonic Acids", at *the 2014 China Mainland-Taiwan-Hong Kong Symposium on Polymer Liquid Crystals and Supramolecular Ordered Structures*, Changchun, China, Aug. 12-16, 2014.
- 37) "Novel Non- -Molecules and Their Applications", at *Session: Novel Functional π -Systems and Materials, the 15th Asian Chemical Congress*, Singapore, Aug. 19-23, 2013.
- 38) "Tailoring Stars of Organic Semiconductors", at *International Young Chemist Symposium on Functional π -Systems toward Molecular Electronics*, Nara, Japan, Aug. 7, 2013.
- 39) "N-Heteropentacenes: From Molecules to Solution-Processed Organic Semiconductors", at *Collaborative Conference on Materials Research (CCMR 2013)*, Jeju Island, South Korea, Jun. 24-28, 2013.
- 40) "Molecular Engineering and Interface Engineering of Thin Film Transistors of N-heteropentacenes", at *International Symposium on Functional Organic Materials and Devices (ISFOMD)*, Lanzhou, China, Jun. 7-9, 2013.
- 41) "Interface Engineering of Organic Thin Film Transistors with Self-Assembled Phosphonic Acids", at *the BASF and CAS Joint Workshop*, Beijing, China, Mar. 4-5, 2013.
- 42) "Novel Structures for High-Performance N-Type Organic Semiconductors", at *the 9th National Symposium on Electronic Process in Organic Solids*, Yangzhou, China, Nov. 10-12, 2012.
- 43) "N-Heteropentacenes: From Molecules to Semiconductors" at *Symposium Z: Conjugated Organic Materials for Energy Conversion, Energy Storage, and Charge Transport, the 2012 MRS Spring Meeting & Exhibit*, San Francisco, California, USA, Apr. 9-13, 2012.
- 44) "High-Performance Organic Materials with Pyrazine and Cycloheptatriene as Novel Building Blocks" at *the 6th International Conference on Cutting-Edge Organic Chemistry in Asia (ICCEOA-6), Asian Core Program*, Hong Kong, China, Dec. 11-15, 2011.

- 45) "Novel Applications of Pentacenequinones in Organic Thin Film Transistors: from a Template to N-Type Semiconductors" at *Symposium 225 Organic Electronic Materials: From Small Molecules to Conducting Polymers, the 2010 International Chemical Congress of Pacific Basin Societies (Pacifichem 2010)*, Honolulu, Hawaii, USA, Dec. 15-20, 2010.

Departmental Seminars

- 1) Shanghai Institute of Organic Chemistry, Chinese Academy of Sciences, Nov. 7, 2019
- 2) College of Chemistry & Chemical Engineering, Shanghai Jiaotong University, Nov. 6, 2019
- 3) College of Chemistry & Chemical Engineering, Lanzhou University, Jun. 10, 2019
- 4) Organic Chemistry Institute, Ruprecht-Karls-Universität Heidelberg, May 24, 2019
- 5) Department of Chemistry and Pharmacy, Friedrich-Alexander-Universität Erlangen-Nürnberg, May 20, 2019
- 6) Department of Chemistry, University of Science and Technology of China, Sept. 14, 2018
- 7) College of Chemistry and Chemical Engineering, Anhui University, Sept. 14, 2018
- 8) Department of Chemistry, Ulsan National Institute of Science and Technology, May 15, 2018.
- 9) Institute of Chemistry, Chinese Academy of Sciences, Jan. 6, 2018.
- 10) College of Chemistry and Molecular Engineering, Peking University, Jan. 5, 2018.
- 11) Department of Chemistry, Tianjin University, Jan. 4, 2018.
- 12) Department of Chemistry, Shanghai Normal University, Jan. 2, 2018.
- 13) Department of Chemistry, Hunter College, The City University of New York, July 26, 2017.
- 14) College of Material Science and Engineering, Shenzhen University, June 17, 2016.
- 15) Department of Materials Science and Engineering, University of Science and Technology of China, Oct. 19, 2015.
- 16) School of Materials Science and Engineering, Nanyang Technological University, Jul. 1, 2015.
- 17) College of Chemistry & Chemical Engineering, Lanzhou University, Jun. 1, 2015.
- 18) Department of Mechanical Engineering, Hong Kong University, Mar. 10, 2015.
- 19) School of Materials Science and Engineering, Nanyang Technological University, Aug. 21, 2013.
- 20) Department of Chemistry, Graduate School of Science, Kyoto University, Aug. 9, 2013.
- 21) Institute of Chemistry, Chinese Academy of Sciences, Mar. 6, 2013
- 22) Shanghai Institute of Organic Chemistry, Chinese Academy of Sciences, Nov. 8, 2012
- 23) Department of Chemistry, Hong Kong University of Science and Technology, Feb. 16, 2012
- 24) National Center for Nanoscience and Technology, China, Jun. 13, 2011.
- 25) Hefei National Laboratory for Physical Sciences at the Microscale, University of Science and Technology of China, Sept. 3, 2010.
- 26) College of Chemistry and Molecular Engineering, Peking University, Dec. 10, 2009.
- 27) Shenzhen graduate school, Peking University, Feb. 26, 2009.
- 28) Department of Biology and Chemistry, City University of Hong Kong, Jun. 17, 2008.
- 29) Department of Chemistry, Tsinghua University, Dec. 3, 2007.
- 30) Shanghai Institute of Organic Chemistry, Chinese Academy of Sciences, Jun. 28, 2007.
- 31) Department of Chemistry, University of Science and Technology of China, Dec. 25, 2006.

Patents

- 1) "Self-assembled Monolayers of Phosphonic Acids as Dielectric Surfaces for High-Performance Organic Thin Film Transistors", U.S. Patent No. 9,701,698 B2 (July 11, 2017)

P. R. China patent No.: 201580000780.2 (May 10, 2019)

- 2) "N-Heteropentacene Derivatives and Method for Preparing the Same", US provisional patent filed on Feb. 23, 2011 (Application No. 61/445,943).

Research Grants Awarded

As Principle Investigator or Project Coordinator:

- 1) "Covalent and Noncovalent Networks of Negatively Curved Nanographenes", the Research Grant Council of Hong Kong, General Research Fund 2019-20 (reference number: 14300919), amount: HK\$558,272, from 01/01/2020 to 31/12/2022.
- 2) "Curved Polycyclic Arenes: A New Frontier of Carbon Nanoscience and Application in Bioelectronic Noses", Croucher Senior Research Fellowship 2019, amount: HK\$2,000,000, from 01/09/2019 to 31/08/2022.
- 3) Academic Equipment Grant (2018-2019) of CUHK for a Recycling Preparative HPLC system, amount: HK\$260,000.
- 4) "Negatively Curved Nanographenes and Carbon Nanobelts Containing Heptagons", the Research Grant Council of Hong Kong, General Research Fund 2018-19 (reference number: 14300218), amount: HK\$505,298, from 01/01/2019 to 31/12/2021.
- 5) "Synthesis and Applications of Linear and Hoop-Shaped N-Heteroarenes Containing Four-Membered Rings", the Research Grant Council of Hong Kong, General Research Fund 2017-18 (reference number: 14300217), amount: HK\$784,347, from 01/11/2017 to 31/10/2020.
- 6) Academic Equipment Grant (2017-2018) of CUHK for a High Vacuum Thermal Evaporator, amount: HK\$226,000.
- 7) "Non-planar Polycyclic Arenes: From Molecules to Materials", the Research Grant Council of Hong Kong, Collaborative Research Fund 2014/15 (reference number: C4030-14G), total amount: HK\$6,300,000, from 1/6/2015 to 31/7/2018.
- 8) "Functionalized Hexabenzoperylenes: Synthesis, Self-Assemblies and Applications", the Research Grant Council of Hong Kong, General Research Fund 2014-15 (reference number: 14303614), amount: HK\$483,065, from 01/01/2015 to 31/12/2017.
- 9) "Molecular Engineering and Crystal Engineering of N-Heteroarenes: N-Phenylation, Co-crystals and Applications", the Research Grant Council of Hong Kong, General Research Fund 2013-14 (reference number: 402613), amount: HK\$974,193, from 01/01/2014 to 31/12/2016.
- 10) "Heptagon-Embedded Polycyclic Aromatic Hydrocarbons: Synthesis, Properties and Applications", the Research Grant Council of Hong Kong, General Research Fund 2012-13 (reference number: 402412), amount: HK\$775,000, from 01/01/2013 to 31/12/2015.
- 11) "Clathrates of Aryl Tetracenes and Their Applications in Chemical Vapor Sensors Based on Organic Thin Film Transistors", the Research Grant Council of Hong Kong, General Research Fund 2011-12 (reference number: 402011), amount: HK\$710,000, from 01/01/2012 to 31/12/2014.
- 12) "Development of Novel N-Type Organic Semiconductors Featuring Five-Membered Rings For Organic Solar Cells and Thin Film Transistors", the Research Grant Council of Hong Kong, General Research Fund 2010-11 (reference number: 402810), amount: HK\$755,700, from 01/01/2011 to 31/12/2013.
- 13) "Molecular Engineering of Dihydropentaazaacenes (DHTAAs) for Organic Thin Film Transistors: Operational Stability, Molecular Ordering, and Solution Processing", the Research Grant Council of Hong Kong, General Research Fund 2008-09 (reference number: 402508), amount: HK\$668,417, from 01/01/2009 to 31/12/2011.
- 14) "H F H J H H -Extended 616-Binaphthyls", CUHK Research Committee Direct Grant for Research (project ID: 2060381), amount: HK\$60,000, from 01/03/2010 to 29/02/2012.

- 15) "Integrating Pentagons into Hexagons: Tuning Molecular Orbital Levels to Develop Novel Ambipolar Organic Semiconductors", CUHK Research Committee Direct Grant for Research (project ID: 2060325), amount: HK\$80,000, from 01/03/2008 to 28/02/2010.
- 16) "Iodinated Acenes: A New Approach to Organic Semiconductors with High Charge Carrier Mobility", CUHK Research Committee Direct Grant for Research (project ID: 2060302), amount: HK\$100,000, from 01/03/2007 to 28/02/2009.
- 17) Academic Equipment Grant (2006-2007) of CUHK for a High Vacuum Thermal Evaporator, amount: HK\$230,000.

As Co-Investigator or Co-Principle Investigator:

- 18) "Development of New Methodologies for New Carborane Materials", the Research Grant Council of Hong Kong, Collaborative Research Fund 2012/13 (reference number: CUHK7/CRF/012G), total amount: HK\$8,000,000, from 1/6/2013 to 31/5/2016. HK\$1,000,000 was allocated to Qian Miao.
- 19) Institute of Molecular Functional Materials, Areas of Excellence Scheme, University Grants Committee (project ID: AoE/P-03/08), total amount: HK\$80,000,000, from 01/01/2010 to 31/12/2018. HK\$1,297,000 (including matching fund from CUHK) was allocated to Qian Miao in 2010-2016.
- 20) "Interface Engineering for Organic Transistors: Materials, Fabrication, Characterization, and Application", the Research Grant Council of Hong Kong, Collaborative Research Fund 2008/09 (reference number: CUHK2/CRF/08), total amount: HK\$4,000,000, from 01/06/2009 to 31/05/2012. Qian Miao was the *deputy project leader* for this project.
- 21) "Interface Engineering for Organic Transistors: Materials, Fabrication, Characterization, and Application", CUHK Research Committee Group Research Scheme 2008-09 (project ID: 3110037), total amount: HK\$1,200,660, from 01/04/2009 to 31/03/2012.
- 22) "Interface Engineering for Organic/Solid Hybrid System: Materials, Fabrication, Characterization, and Application", CUHK Research Committee Group Research Scheme 2007-08 (project ID: 3110033), total amount: HK\$416,000, from 01/04/2008 to 30/09/2009.

Teaching Experience

Lecture Courses:

CHM5642 Supramolecular Chemistry (2007-2008 to present)
 CHM1280 Introduction to Organic Chemistry and Biomolecules (2009-2010 to present)
 CHM5660 Advanced Organic Chemistry: Structure and Mechanism (2008-2009)
 CHM3232 Amines, Arenes and Heterocycles (2008-2009)
 CHM5730 Special Topics in Chemistry (2007-2008)
 CHM5910 Current Topics in Chemistry (2006-2007)

Other Courses:

GEC0413 Chung Chi College Senior Seminar (2007-2008, 2014-2015, 2015-2016)
 GEJC1110 College, University and Community: STOT (2010-2011, 2011-2012)

Students and Postdoctoral Researchers Supervised

Graduate Students

- 1) Zhao, Wei (M. Phil. 2008, currently at GF Securities Co. Ltd.)
- 2) Zheng, Xing (M. Phil. 2010, currently at Fujian Huamin Industrial Group Company Ltd.)
- 3) Liang, Zhixiong (PhD 2011, currently a senior scientist at Rohm and Haas Electronic Materials Asia Ltd., the Dow Chemical Company)
- 4) Tang, Qin (PhD 2011, currently a senior scientist at Rohm and Haas Electronic Materials Asia Ltd., the Dow Chemical Company)
- 5) Mao, Renxin (M. Phil. 2012)
- 6) He, Zikai (PhD 2013, currently an associate professor at Harbin Institute of Technology)

- Shenzhen)
- 7) Luo, Jiye (PhD 2013, currently an associate professor at Guangdong University of Technology)
 - 8) Xia, Hai (PhD 2013, currently a senior engineer at Shenzhen Boardtech Co. Ltd.)
 - 9) Liu, Danqing (PhD 2014, currently a lecturer at Shenzhen University)
 - 10) Xu, Xiaomin (PhD 2015, Hong Kong PhD Fellowship, currently an assistant professor at Tsinghua-Berkeley Shenzhen Institute)
 - 11) Shan, Liang (PhD 2015, currently a senior engineer at Shenzhen Institute of Advanced Technology, CAS)
 - 12) Cheung, Kwan Yin (PhD 2016, currently a Croucher Postdoctoral Fellow at Nagoya University)
 - 13) Gu, Xiao (PhD 2016, Hong Kong PhD Fellowship, currently a research scientist at STA Pharmaceutical Co., Ltd.)
 - 14) Yang, Xuejin (PhD 2017, currently a postdoctoral researcher at University of Wisconsin-Madison)
 - 15) Yang, Yong (PhD 2017, currently a postdoctoral researcher at University of Zurich)
 - 16) Shan, Bowen (PhD 2018, currently a project manager at Huierli Biotech Inc. Shenzhen)
 - 17) Li, Changqing (PhD 2018, currently a postdoctoral researcher at Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences)
 - 18) Zhang, Binghao (MPhil 2018, currently a PhD student at City University of Hong Kong)
 - 19) Pun, Sai Ho (PhD 2019, currently a postdoctoral researcher at the Chinese University of Hong Kong)
 - 20) Chu, Ming (PhD 2019, currently a Senior Chemical Engineer at First Union Group)
 - 21) Wang, Jinlian (PhD 2019, currently an associate professor at Shaanxi University of Science and Technology)
 - 22) Zhao, Mengna (PhD student, 3rd year, Hong Kong PhD Fellowship)
 - 23) Wang, Yujing (PhD student, 3rd year)
 - 24) Chen, Han (PhD student, 3rd year)
 - 25) Zhang, Yiqun (PhD student, 2nd year)
 - 26) Gao, Man (PhD student, 2nd year)
 - 27) Gong, Qi (PhD student, 1st year)
 - 28) Xiong, Yongming (PhD student, 1st year)
 - 29) Zeng, Xingwei (PhD student, 1st year)
 - 30) Ye, Liping (PhD student, 1st year)

Undergraduate Students

- 1) Lam, Sheung-Chuen (summer 2007)
- 2) Lo, Ka Yuen (summer 2007)
- 3) Lau, Wing Hei (summer 2009)
- 4) Lee, Rennie (summer 2013)
- 5) Ng, Yik Kwong (summer 2014)
- 6) Yuen, Yiu Shing (summer 2015)
- 7) Chan, Yik Tin (summer 2016)
- 8) Cheung, Ka Man (summer 2019)

Postdoctoral researchers

- 1) Li, Zhefeng (2009-2010; PhD from Changchun Institute of Applied Chemistry, Chinese Academy of Sciences; currently an associate professor at Chongqing University)
- 2) Xie, Minghua (2011-2012; PhD from Zhejiang University; currently an associate professor at Yancheng Institute of Technology)
- 3) Cheung Kwan Yin (2016-2018: PhD from the Chinese University of Hong Kong; currently a Croucher Postdoctoral Fellow at Nagoya University)
- 4) Yang, Shuaijun (2013-2018; PhD from Sichuan University; currently a lecture at University of Jinan)
- 5) Xia, Zeming (2018 - present; PhD from Sun Yat-sen University)

- 6) Pun, Sai Ho (2019 - present; PhD from the Chinese University of Hong Kong)

Visiting Graduate Students

- 1) Kohtaro Takhashi (2015, Nara Institute of Science and Technology, Japan)
- 2) Yuto Tamura (2016, Nara Institute of Science and Technology, Japan)
- 3) Thomas Wiesner (2019, Ruprecht-Karls-Universität Heidelberg)