

Curriculum Vitae



Rongbiao Tong (童榮標)
PhD in Chemistry (2008, Emory)
Professor
Department of Chemistry
The Hong Kong University of Science and
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Professional Experiences:

07/2023-Present, member of Editorial Advisory Board, ACS Sustainable Chemistry & Engineering.
07/2023-Present, Professor, Department of Chemistry, Hong Kong University of Science and Technology.
07/2017-06/2023, Associate Professor (tenured), Department of Chemistry, Hong Kong University of Science and Technology.
2011-06/2017, Assistant Professor, Department of Chemistry, Hong Kong University of Science and Technology
2008–2011, Postdoctoral Fellow (Advisor: Amos B. Smith, III): *University of Pennsylvania, USA.*

Education Background:

2003–2008, Ph.D. (Advisor: Frank E. McDonald): *Emory University, USA.*
2000–2003, M.S. (Advisor: Can-Cheng Guo): *Hunan University, China.*
1996–2000, B.S. *Hunan University, China.*

Honors and Awards:

2023-present, member of Editorial Advisory Board, ACS Sustainable Chemistry & Engineering.
2018, Asian Core Program Lectureship Award (Singapore), Thailand.
2017, Lectureship, Chemistry Promotion Center, Ministry of Science and Technology, Taiwan, ROC.
2016, Young Career Focus (Prof. TONG), *Synform* **2016**/06, A89–A91.
2015, Thieme Chemistry Journal Award.
2014, Asian Core Program Lectureship Award (China), Malaysia.
2014, Asian Core Program Lectureship Award (Korea), Malaysia.
2012, Asian Core Program Lectureship Award (Japan), Singapore.
2008, Charles Lester Award for Outstanding Performance in Chemistry, Emory University, USA.

Research Interests:

Synthetic Organic Chemistry:

- Total synthesis of complex natural and non-natural products;
- Synthetic methodologies to solve the reactivity and selectivity of fundamental organic reactions.

Medicinal Chemistry:

Design, synthesis and evaluation of biologically active compounds.

Green Chemistry:

Invention of new synthetic technologies to reduce/eliminate the use/generation of hazardous substances.

Teaching Courses (English):

CHEM 2110 *Organic Chemistry I* (UG),

CHEM 4110 *Structural Elucidation in Organic Chemistry* (UG & PG).

CHEM 5030 Molecular Analysis (MSc Program)

Research projects awarded as PI/PC:

(Note: GRF: General Research Fund from Research Grants Councils of Hong Kong; CRF: Collaborative Research Fund from Research Grants of Hong Kong; NUS: National University of Singapore; SMSEGL: the Hong Kong Branch of Southern Marine Science and Engineer-ing Guangdong Laboratory (Guangzhou); NSFC: National Natural Science Foundation of China)

Role/ Duration	Agency/ Project No.	Project Title	Amount (HKD)
PI 2023-2026	RGC-GRF 16304023	Total Synthesis of Spirotetronate Polyketide Spirohexenolides A and B	\$877, 079
PI 2022/2023	HKUST REC22SCR08	SPectraMax M5e Multi-Mode Microplate Reader, Molecular Devices	\$385,600
PC 2023-2026	RGC-CRF C6022-22W	Novel Antibiotics from Genome Mining and Diversity-oriented Synthesis	\$5,003,790
PI 2022-2025	RGC-GRF 16308922	Chemical Synthesis of Broad-spectrum Anticancer Withaferin A and Related Withanolides	\$870,000
PI 2022-2024	RGC-GRF 16300921	Collective Total Synthesis of Sarpagine and Macroline Indole Alkaloids	\$666,015
PI 2022-2023	HKUST DG22SC06	Novel Antibiotics from Genome Mining and Diversity-oriented Synthesis	\$200,000
PI 2021-2024	RGC-GRF 16306920	Studies on Aza-Friedel-Crafts Reaction of Aza-Achmatowicz Rearrangement Products with Indoles	\$666,512
PC 2020-2023	RGC-CRF C6026-19G	Novel Antibiotics from Genome Mining and Diversity-oriented Synthesis	\$5,250,027
PI 2020-2023	HKUST PDF99/00-P	Novel Antibiotics from Genome Mining and Diversity-oriented Synthesis	\$200,000
PI 2020-2023	HKUST VPRDO20SC08	Novel Antibiotics from Genome Mining and Diversity-oriented Synthesis	\$930,005
PI 2020-2022	RGC-RMGS RMGS20SC02	Permutations of Suzuki / Petasis / Achmatowicz Reactions to Synthesize Substituted, Chiral Mono-N-Protected Diamines	\$62,410

PI 2020–2021	NUS (Singapore) NUS20SC01	Targeting telomere maintenance for therapeutic intervention in human cancer and aging	\$168,608
PI 2019–2022	RGC-GRF 16307219	Development of Enantioselective Redox-A3 Reaction of Tryptolines for Collective Total Synthesis of Indole Alkaloids	\$837,408
PI 2019–2022	HKUST IRS20SC10	Development of Enantioselective Redox-A3 Reaction of Tryptolines for Collective Total Synthesis of Indole Alkaloids	\$30,000
Co-I 2019–2022	GRF-RGC 16308719	Development of [2+1+2+1] Cycloaddition for De Novo Synthesis of Densely Functionalized Phenols	\$558,272
Co-I 2019–2022	RIG-RGC IRS20SC11	Development of [2+1+2+1] Cycloaddition for De Novo Synthesis of Densely Functionalized Phenols	\$30,000
PI 2019–2022	SMSEGLGZ SMSEGL20SC 01-B	Drugs from the Sea; Chemical Synthesis of Bioactive Marine Natural Products	\$1,200,000
Co-I 2019–2020	SMSEGLGZ SMSEGL20SC 01-H	Structure-functional Characterization of Bioactive Marine Natural Products and Metabolomics by NMR	\$300,000
PI 2019–2021	RGC-GRF 16304618	Synthetic Studies of anti-Inflammatory Berkeleyacetal C	\$505,298
PI 2019–2021	HKUST IRS19SC06	Synthetic Studies of anti-Inflammatory Berkeleyacetal C	\$30,000
PI 2018–2018	RGC-PSCG PSCG17SC01	25th Symposium on Chemistry Postgraduate Research in Hong Kong	\$50,000
PI 2018–2020	Pfizer Inc. PZI17SC01	Permutations of Suzuki / Petasis / Achmatowicz Reactions to Synthesize Substituted, Chiral Mono-N-Protected Diamines	\$653,459
PI 2018–2020	RGC-GRF 16303617	Collective Syntheses of Cytotoxic Penostatins	\$784,347
PI 2018–2020	HKUST IRS18SC07	Collective Syntheses of Cytotoxic Penostatins	\$30,000
PI 2018–2021	NSFC 21772167	Total synthesis of indole diterpenoids	\$890,854

PI 2017–2018	HKUST UROPI7SC29	Catalytic Synthesis of Organic Molecules	\$7,500
Co-I 2017–2020	UGC-GRF 16212017	Quantifying Total Organic Sulfur and Characterizing Organosulfates in Atmospheric Aerosols in the Pearl River Delta Region, China	\$348,598
Co-I 2017–2020	HKUST IRS18SC09	Quantifying Total Organic Sulfur and Characterizing Organosulfates in Atmospheric Aerosols in the Pearl River Delta Region, China	\$30,000
PI 2017–2018	HKUST UROPI7SC02	Making Valuable Organic Molecules with Green Chemistry	\$7,500
PI 2017–2018	HKUST SBI17SC03	A Green Protocol for Halocyclization of Tryptamines and Tryptophols	\$40,000
PI 2016–2019	RGC-GRF 16311716	Synthetic Studies of Alotaketals and Phorbaketals	\$540,824
PI 2016–2019	HKUST IRS17SC16	Synthetic Studies of Alotaketals and Phorbaketals	\$25,000
PI 2016–2017	HKUST FSGRF16SC03	Oxidative Ring Expansion (ORE): Development of a General Synthetic Strategy for Benzannulated Macrolides and Total Syntheses of Natural Products	\$15,000
PI 2015–2018	NSFC 21472160	Exploration of Achmatowicz Rearrangement for Total Synthesis of Complex Natural Products	\$1,001,760
PI 2014–2017	RGC-GRF 16305314	Synthetic Application of Phenol Oxidative Dearomatization in Development of New Synthetic Methods and Total Synthesis of Natural Products	\$784,311
PI 2014–2016	HKUST IRS15SC07	Synthetic Applications of Phenol Oxidative Dearomatization in Development of New Synthetic Methods and Total Synthesis of Natural Products.	\$25,000
PI 2013–2016	RGC-GRF 605113	Exploitation of Achmatowicz Rearrangement for Development of New Synthetic Methods and Total Syntheses of Cytotoxic Uprohides F Diacetate and G Acetate	\$974,193
PI 2012–2017	RGC-ECS 605912	N-Heterocyclic Carbenes as a General Platform for Development of Cascade Reactions Combining Organo- and Organometallic Catalysis	\$797,083

PI	HKUST	Target-oriented methodology development for the	\$200,000
2011–2013	DAG12SC03	enantioselective total synthesis of cytotoxic organohalogen-containing natural products	

List of Selected Invited Talks:

1. “*Drugs from the sea: Chemical synthesis of bioactive marine natural products*”, Hong Kong Branch 3rd Annual Meeting, International Conference on Marine Science and Technology. 7-8 February **2023**, HKUST.
2. “*Total Synthesis and Activity Studies of Marine Natural Products*”. 2022 Frontier Chemistry and Biology Forum. Nov 10th, **2022** (online via Zoom Meeting).
3. “*Total Synthesis and Biological Studies of Natural Products*”. Annual Symposium of China Association of Chinese Medicine, Nov 11th, **2022** (online via Zoom Meeting).
4. “*In situ generation of reactive halogenating species for green and sustainable oxidation in organic synthesis*”. Departmental seminar, College of Materials and Energy, South China Agricultural University (online via zoom meeting), June 17th, **2022**.
5. “*Collective total synthesis of bioactive marine natural product lepadins*”, Hong Kong Branch 2nd Annual Meeting International Conference on Marine Ecosystem and Resources, Hong Kong (online via zoom meeting). January 14-15, **2022**.
6. “*Green in situ generation of reactive halogenating species for sustainable oxidation in organic synthesis*”, Pacificchem 2021 (International Chemical Congress of Pacific Basin Societies), Hawaii, USA (online via zoom meeting). Dec 17, **2021**.
7. **2021**, Shenzhen (China): Total synthesis of natural products and Green Chemistry. Wutong Forum, Chinese University of Hong Kong (Shenzhen), Aug 14-16th, 2021, Shenzhen (online via zoom meeting).
8. **2020**, Hong Kong: Total Synthesis of Marine Natural Products. Hong Kong Branch Online Seminar Series on 8th July 2020. Hong Kong Branch of the Southern Marine Science and Engineering Guangdong Laboratory (Guangzhou).
9. **2019**, Guangzhou (China): Oxone-Halide Green Oxidation Reaction. 第九届岭南有机化学论坛（中山大学，2019-10）
10. **2018**, Bangkok (Thailand): *Total Synthesis of Penostatins*. The 13th International Conference on Cutting-Edge Organic Chemistry In Asia (ICCEOCA-13).
11. **2018**, Shanghai (China): *Total Synthesis of Sesterterpenoid Natural Products*. Symposium of Natural Product Total Synthesis. (天然产物合成学术研讨会，华东师大, Oct 8th).
12. **2017**, Taiwan (ROC): *Collective Total Syntheses of Sesterterpenoid Natural Products*. National Taiwan Normal University(台師大化學系, Oct 16th), Kaohsiung Medical University(高雄醫學大學應化系, Oct 17th), National Tsing Hua University(國立清華大學化學系, Oct 18th), Institute of Chemistry, Academia Sinica(中研院化學所, Oct 19th), Fu Jen Catholic University(輔仁大學化學系, Oct 20th).
13. **2017**, Guangzhou (China): *Collective Total Syntheses of Sesterterpenoid Natural Products*. Sun Yat-sen University (中山大学化学院，Nov 20th)
14. **2017**, Shantou (China): *Collective Total Syntheses of Sesterterpenoid Natural Products*. Shantou University (汕头大学化学系，Dec 25th)
15. **2017**, Tianjin (China): *Total Synthesis of Sesterterpenoid Natural Products*. The 6th Natural Product Total Synthesis: Young Investigator forum. (天然产物全合成—青年学术研讨会，Nankai University, Aug 20th).

16. **2016**, Beijing (China): Synthetic Strategy for Single Spiroisomeric Natural Products. The 3rd International Symposium on Natural Product Synthesis and Innovative Process Methods for Drug Manufacture. Oct. 14-16, 2016, Beijing, China.

Publication list:

1. Liang[†], L.; Wang[#], W.; Li, M., Xu, Y.; Lu, Z.; Wei, J.; Tang, B. Z.; Sun*, F.; **Tong***, **R.** Water-Soluble Chlorophyll Protein as Efficient Photosensitizer for Cancer Photodynamic Therapy. submitted, **2023**, (submitted).
2. Wenjun Wang[#], Foqing Ma[#], Yuen Tsz Cheung, Guihua Zeng, Yiqin Zhou, Zijing Chen, Lixin Liang, Tuoping Luo*, Rongbiao Tong*, Marine Alkaloid Lepadins E and H Induce Ferroptosis for Cancer Chemotherapy. *J. Med. Chem.* **2023**, under revision.
3. Tao Zheng, Jun Xu,* Shaojun Cheng, Jianghai Ye, Shiqiang Ma,* Rongbiao Tong*, Green Halogenation of Indoles with Oxone-Halide. *J. Org. Chem.* **2023**, under revision.
4. Wei, Wei; Cheung, Ka Key; Lin, Ran; Kong, Lam Cheung; Chan, Ka Lok; Sung, Herman; Williams, Ian; Tong*, Rongbiao; Lin*, Zhenyang; Jia*, Guochen. [2+2+1+1] cycloaddition for de novo synthesis of densely functionalized phenols. *Angew. Chem. Int. Ed.*, **2023**, Accepted.
5. Rongbiao Tong*, [The Untold Journey of Total Synthesis of Natural Products](#). *Synlett*, **2023**, 34 (11), 1215-1229 (invited Account). DOI: 10.1055/a-2010-7874.
6. Peilin Tian, Rongbiao Tong*, [In-water Oxidative Suzuki Coupling of Arenes and Arylboronic Acids Using H₂O₂ as Terminal Oxidant](#). *Green Chem.* **2023**, 25, 1345-1350. DOI: 10.1039/D2GC04428E. Highlighted in CBG (ChemBeanGo). (IF: 11.03)
7. Liyan Song*, Yiqin Zhou, Hanbin Liang, Hongzuo Li, Yunrong Lai, Hongliang Yao, Ran Lin* and Rongbiao Tong*, [Two Green Protocols for Halogenative Semipinacol Rearrangement](#). *J. Org. Chem.* **2022**, 88, 504-512. DOI: 10.1021/acs.joc.2c02496. (IF: 4.2)
8. Tian[#], P.; Ye, W.; Zhang[†], X.; Tong[#], Y.; Qian*, P.-Y.; **Tong***, **R.** [Ten-step Asymmetric Total Syntheses of Potent Antibiotics Anthracimycin and Anthracimycin B](#). *Chem. Sci.* **2022**, 13, 12776-12781. DOI: 10.1039/D2SC05049H. (IF: 9.97)
9. Zheng[†], Y.; Cheung[#], Y. T.; Liang[†], L.; Qiu, H.; Zhang, L.; Tsang, A.; Chen*, Q.; **Tong***, **R.** [Electrochemical Oxidative Rearrangement of Tetrahydro-β-carbolines in Zero-gap Flow Cell](#). *Chem. Sci.* **2022**, 13, 10479-10485. DOI: 10.1039/D2SC03951F. (IF: 9.97)
10. Liang[†], L.; Guo[†], L.; **Tong***, **R.** [Achmatowicz Rearrangement-inspired Development of Green Chemistry, Organic Methodology, and Total Synthesis of Natural Products](#). *Acc. Chem. Res.* **2022**, 55, 2326-2340. DOI: 10.1021/acs.accounts.2c00358. (IF: 24.47) (Invited Account)
11. Song*, L.; Lai, Y.; Li, H.; Ding, J.; Yao, H.; Su, Q.; Huang, B.; Ouyang, M.-A.; **Tong***, **R.** [Environmentally Benign and User-friendly in situ Generation of Nitrile Imine from Hydrazone for 1,3-Dipolar Cycloaddition](#). *J. Org. Chem.* **2022**, 87, 10550-10554. DOI: 10.1021/acs.joc.2c01391. (IF: 4.2)
12. Xiayan Zhang, Yi Tong, Gang Li, Hao Zhao, Guanye Chen, Hongliang Yao*, Rongbiao Tong*. [\[1,5\]-Allyl Shift by a Sequential Achmatowicz/Oxonias-Cope/Retro-Achmatowicz Rearrangement](#). *Angew. Chem. Int. Ed.* **2022**, 61, e202205919. DOI:10.1002/anie.202205919.

13. Chenxi He, Foqing Ma, Wei Zhang, and Rongbiao Tong,* [Reinvestigating FeBr₃-Catalyzed Alcohol Oxidation with H₂O₂: Is High-valent Iron Species \(HIS\) or Reactive Brominating Species \(RBS\) Responsible for Alcohol Oxidation?](#) *Org. Lett.* **2022**, 24, 3499-3503. DOI: 10.1021/acs.orglett.2c01133.
14. Guodong Zhao,* Yaxin Wang, Cheng Wang, Haimin Lei, Bingqing Yi, and Rongbiao Tong,* [Fenton-like Chemistry Enables Catalytic Oxidative Desulfurization of Thioacetals and Thioketals with Hydrogen Peroxide.](#) *Green Chem.* **2022**, 24, 4041-4049. DOI: 10.1039/D2GC01050J.
15. Guo, L.-D.; Xu, Z.; Tong*, R. [Asymmetric Total Synthesis of Indole Diterpenes Paspalicine, Paspalinine, and Paspalinine-13-ene.](#) *Angew. Chem. Int. Ed.* **2022**, 61, e202115384. DOI: 10.1002/anie.202115384. (Impact Factor: 15.34).
16. Marquez-Cadena, M. A.; Zhang*, W.; Tong*, R. [Synthetic Studies toward the Berkeleyacetal Core Architecture.](#) *Org. Lett.* **2021**, 23, 9227-9231. DOI: 10.1021/acs.orglett.1c03559. (Impact Factor: 6.01)
17. Liang, L.; Zhou, S.; Zhang*, W.; Tong*, R. [Catalytic Asymmetric Alkynylation of 3,4-Dihydro-beta-carbolinium Ions Enables Collective Total Syntheses of Indole Alkaloids.](#) *Angew. Chem. Int. Ed.* **2021**, 60, 25135-25142. DOI: 10.1002/anie.202112383. (Impact Factor: 15.34).
18. Ma, F.; He, C.; Wang, E.; Tong*, R. [Collective Asymmetric Total Syntheses of Marine Decahydroquinoline Alkaloid Lepadins A-E, H, and ent-I.](#) *Org. Lett.* **2021**, 23, 6583-6588. DOI: 10.1021/acs.orglett.1c02435. (Impact Factor: 6.01).
19. Wang, Y.-C.; Tong*, R.; Yu*, J.-Z. Chemical Synthesis of Multifunctional Air Pollutants: Terpene-derived Nitroxyl Organosulfates. *Environ. Sci. Tech.* **2021**, 55, 8573-8582. DOI:10.1021/acs.est.1c00348. (Impact Factor: 9.03).
20. Zhao, G.; Wang, E.; Tong*, R. [From Reactive Oxygen Species to Reactive Brominating Species: Fenton Chemistry for Oxidative Bromination.](#) *ACS Sustain. Chem. Eng.*, **2021**, 9, 6118-6125. DOI: 10.1021/acssuschemeng.1c01709. (Impact Factor: 8.20).
21. Zhao, G.; Liang, L.; Wang, E.; Wang, Y.; Tong*, R. [Fenton Chemistry for Achmatowicz rearrangement.](#) *ACS Catal.* **2021**, 11, 3740-3748. DOI:10.1021/acscatal.1c00219. (Impact Factor: 13.08).
22. Zhao, G.; Liang, L.; Wang, E.; Lou, S.; Qi, R.; Tong*, R. [Fenton Chemistry Enables Catalytic Oxidative Rearrangement of Indoles using Hydrogen Peroxide.](#) *Green Chem.* **2021**, 23, 2300-2307. DOI: 10.1039/d1gc00297. Selected by editor as a **2021 HOT Green Chemistry Article**. (Impact Factor: 10.18).
23. Wang, J.; Márquez-Cadena,[†] M. A.; Tong*, R. [Asymmetric Total Syntheses of \(+\)-Penostatins A and C.](#) *Org. Lett.* **2020**, 22, 5074-5078. DOI: 10.1021/acs.orglett.0c01649. (Impact Factor: 6.01). ****Highlight in ChemBeanGo 2020-07-06.**
24. Liaw, M. W.; Cheng, W. F.; Tong*, R. [C-Aryl Glycosylation: Palladium-catalyzed Aryl-Allyl Coupling of Achmatowicz Rearrangement Products with Arylboronic Acids.](#) *J. Org. Chem.* **2020**, 85, 6663-6674. DOI: 10.1021/acs.joc.0c00688. (Impact Factor: 4.35). **** Highlighted in Organic Chemistry Portal (ID: J42-Y2020).**
25. Song*, L.; Su, Q.; Lin, X.; Du, Z.; Xu, H.; Ouyang, M.-A.; Yao, H.; Tong*, R. [Cascade Claisen and Meinwald Rearrangement for One-Pot Divergent Synthesis of Benzofurans and 2H-Chromenes.](#) *Org. Lett.* **2020**, 22, 3004-3009. DOI: 10.1021/acs.orglett.0c00770. (Impact Factor: 6.01).
26. Zhao, G.; Canterbury, D. P.; Taylor, A. P.; Cheng, X.; Mikochik, P.; Bagley, S. W.; Tong*, R. [Synthesis of 2-Arylpiperidines via Pd-Catalyzed Arylation of Aza-Achmatowicz Rearrangement Products with Arylboronic Acids.](#) *Org. Lett.* **2020**, 22, 458-463. DOI:10.1021/acs.orglett.9b04220. (Impact Factor:

- 6.01). ****Highlighted in *Synfacts* 2020, 16(4), 0383. [Highlighted in Organic Chemistry Portal](#) (ID: J54-Y2020).**
27. Márquez-Cadena,[†] M. A.; Ren,[†] J.; Ye, W.; Qian*, P.; Tong*, R. [Asymmetric Total Synthesis Enables Discovery of Antibacterial Activity of Siladenoserinols A and H](#). *Org. Lett.* **2019**, 21, 9704-9708. DOI: 10.1021/acs.orglett.9b03857. (†equal contribution). (Impact Factor: 6.01).
28. Xu[#], J.; Liang[#], L.; Zheng, H.; Chi, Y. R.; Tong*, R. [Green Oxidation of Indoles using Halide Catalysis](#). *Nat. Commun.*, **2019**, 10: 4754. DOI: <https://doi.org/10.1038/s41467-019-12768-4>. ([#]equal contribution). (Impact Factor: 14.92). ****Highlighted by Editor (Giovanni Bottari: *Organic Chemistry*) of *Nat. Commun.* Oct 2019.**
29. Wang, Y.-C.; Ma, Y.; Li, X.; Kuang, B. Y.; Huang, C.; Tong*, R.; Yu*, J. Z. [Monoterpene and sesquiterpene \$\alpha\$ -hydroxy organosulfates: Synthesis, MS/MS characteristics, and ambient presence](#). *Environ. Sci. Tech.* **2019**, 53, 12278-12290. DOI: 10.1021/acs.est.9b04703. (Impact Factor: 9.03).
30. Zhang, Z.; Zhang, W.; Kang, F.; Ip, F. C. F.; Ip*, N. Y.; Tong*, R. [Asymmetric Total Syntheses of Rhynchophylline and Isorhynchophylline](#). *J. Org. Chem.* **2019**, 84, 11359-11365. DOI: 10.1021/acs.joc.9b01977. (Impact Factor: 4.35).
31. Zhao, G.; Liang, L.; Wen, C. H. E.; Tong*, R. [Efficient *in situ* Generation of Nitrile Oxides from NaCl-Oxone Oxidation of Various Aldoximes and their 1,3-Dipolar Cycloaddition](#). *Org. Lett.*, **2019**, 21, 315-319. DOI: 10.1021/acs.orglett.8b03829. (Impact Factor: 6.01).
32. Zhao, G.; Tong*, R. [Silica gel enables Achmatowicz rearrangement using KBr/Oxone under “anhydrous” condition for one-pot functionalization](#). *Tetrahedron*, **2019**, 75, 1669-1675. DOI: 10.1016/j.tet.2018.12.022. (Invited contribution).
33. Zhao, G.; Tong*, R. [A Solvent-free Catalytic Protocol for Achmatowicz Rearrangement](#). *Green Chem.* **2019**, 21, 64-68. DOI: 10.1039/c8gc03030h.
34. Yu[†], J.; Zhang[†], Z.; Zhou, S.; Zhang, W.; Tong*, R. [Evolution of Two Routes for Asymmetric Total Synthesis of Tetrahydroprotoberberine Alkaloids](#). *Org. Chem. Front.* **2018**, 5, 242-246. († These authors contribute equally. Invited Contribution).
35. Zhang, Z.; Tong*, R. [Synthetic Approaches to 2,6-*trans*-Tetrahydropyrans](#). *Synthesis*, **2017**, 49, 4899-4916 (Invited review).
36. Fu, G.; Zhang, W.; Ng, Y.; Du, D.; Ip, F. C. F.; Tong*, R.; Ip*, N. Y. [Diarylheptanoids from the Rhizomes of *Alpinia officinarum* Inhibit Aggregation of Alpha-synuclein](#). *J. Agri. Food Chem.*, **2017**, 65, 6608-6614. DOI: 10.1021/acs.jafc.7b02021. (Impact Factor: 5.23).
37. Cheng, H.; Zhang, Z.; Yao, H.; Zhang, W.; Yu, J.; Tong*, R. [“Unified Asymmetric Total Syntheses of Alotaketals A-D and Phorbaketals A”](#) *Angew. Chem. Int. Ed.* **2017**, 56, 9096-9100. DOI: 10.1002/anie.201704628. (Impact Factor: 15.34).
- **Highlighted in *Synfact* 2017, 903**
- **D. F. Taber, *Org. Chem. Highlights* 2018, April 16.**
38. Wang, Y.; Ren, J.; Huang, X. H. H.; Tong*, R.; Yu*, J. Z. [Synthesis of Four Monoterpene-derived Organosulfates and their Quantification in Atmospheric Aerosol Samples](#). *Environ. Sci. Tech.* **2017**, 51, 6791-6801. DOI: 10.1021/acs.est.7b01179.
39. Xu, J.; Tong*, R. [An Environment-Friendly Protocol for Oxidative Halocyclization of Tryptamine and Tryptophol Derivatives](#). *Green Chem.* **2017**, 19, 2952-2956. DOI: 10.1039/C7GC01341H. (Impact Factor: 10.18).

****[Highlighted in news of X-MOL 2017-09-26.](#)**

40. Song*, L.; Huang, F.; Guo, Li.; Ouyang, M.-A.; **Tong***, R. [A Cascade Claisen Rearrangement/o-Quinone Methide Formation/Electrocyclization Approach to 2H-chromenes.](#) *Chem. Commun.* **2017**, 53, 6021-6024. DOI: 10.1039/C7CC03037A.

****[Highlighted in news of X-MOL 2017-10-05.](#)**

41. Zhang, W.; Yao, H.; Yu, J.; Zhang, Z.; **Tong***, R. [Total Syntheses of Sesterterpenoid Ansellones A and B and Phorbadiene.](#) *Angew. Chem. Int. Ed.* **2017**, 56, 4787-4791. DOI:10.1002/anie.201701879.

****[Highlighted in Synfact 2017, 574.](#)**

****[Highlighted in news of X-MOL 2017-07-27.](#)**

42. Yao*, H.; Wang, J.; **Tong***, R. [Recent Developments in Total Syntheses of Cephalosporolides, Penisporolides, and Ascospiroketals.](#) *Chem. Rec.* **2017**, 17, 1109-1123 (Invited Personal Account)

43. Zhou, S.; **Tong***, R. [3-Step Catalytic Asymmetric Syntheses of 13-Methyltetrahydroprotoberberine Alkaloids.](#) *Org. Lett.* **2017**, 19, 1594-1597. DOI: 10.1021/acs.orglett.7b00414.

44. Li, Z.; **Tong***, R. [Asymmetric Total Synthesis of \(-\)-Hedycoropyrans A and B.](#) *J. Org. Chem.* **2017**, 82, 1127-1135. DOI: 10.1021/acs.joc.6b02738. (Top 20 most downloaded articles in Jan. & Feb, 2017).

****[D. F. Taber in Org. Chem. Highlights 2018, January 15.](#)**

45. Wang, J.; **Tong***, R. A NMR method for Relative Stereochemical Assignments of the Tricyclic Core of Cephalosporolides, Penisporolides and Related Synthetic Analogues. *Org. Chem. Front.* **2017**, 4, 140-146. DOI: 10.1039/c6qo00556j.

46. Li, H.; **Tong**, R.; Sun*, J. [Catalytic Enantioselective Aza-Piancatelli Rearrangement.](#) *Angew. Chem. Int. Ed.* **2016**, 55, 15125-15128. DOI: 10.1002/anie.201607714.

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