

Guijun Li (Mitch)

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Working Experience

Evaluation Period (Dec 2018-Aug 2024)

Associate Director, Center for Smart Manufacturing
The Hong Kong University of Science and Technology Mar 2023-now

Assistant Professor, Division of Integrative Systems and Design
The Hong Kong University of Science and Technology Dec 2020-now

Research Assistant Professor (independent)
The Hong Kong Polytechnic University Dec 2018-Dec 2020

Before Evaluation Period

Postdoctoral Fellow/Research Associate
The Hong Kong Polytechnic University Jul 2014-Dec 2018

Research Scientist
The University of Hong Kong Sep 2013-Jun 2014

Education

Doctor of Philosophy (Ph.D.) Sep 2009-Aug 2013

Department of Electrical and Electronic Engineering

The University of Hong Kong, HKSAR

Supervisor: Prof. Philip W. T. Pong (now at New Jersey Institute of Technology)

Thesis: *Development of recording technology with FePt recording media and magnetic tunnel junction sensors with conetic alloy*

Bachelor of Science (BSc) Sep 2005-Jun 2009

Department of Physics

Nanjing University, China

Supervisor: Prof. Shining Zhu

Thesis: *Nonlinear optical properties of LiTaO₃ superlattice*

Research Awards

- **Excellent Young Scholar Award**, The 3rd China Metamaterials Conference, 2024
 - **Silver Medal**, 49th International Exhibition of Inventions Geneva, 2024
 - **World Top 2% Most-Cited Scientists by Stanford**, 2023
 - **Emerging investigator**, Journal of Materials Chemistry C, Royal Society of Chemistry, 2020
 - **Outstanding Reviewer**, RSC Advances, Royal Society of Chemistry, 2020
 - **Young Scientist Award**, Optoelectronic Global Conference, IEEE Photonic Society, 2019
 - **Publons Peer Review Awards**, Top 1% of peer reviewers, 2017
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Professional Service

- **Associate Editor**, IEEE Access, Sep 2019 - now
- **Young Editorial Board Member**, Nano-Micro Letters, July 2023 - now
- **Chair**, IEEE Magnetic Society Hong Kong Chapter, Jan 2021 - Jan 2023
- **Vice-Chair**, IEEE Hong Kong Joint Chapter on Electron Devices and Solid-State Circuits, Jan 2020 - Jan 2023
- **Senior Member of IEEE**, Jan 2019 - now
- **Chairman**, 1st Hong Kong Magnetic Levitation Competition for Secondary School Students, Hong Kong, July 2021
- **Session Chair**, The 15th Joint MMM-INTERMAG Conference, New Orleans, Jan 2022
- **Member of International Science Committee**, 9th International Conference of Asian Society for Precision Engineering and Nanotechnology, Singapore, Nov 2022
- **Session Chair**, 2023 Hong Kong Battery Symposium, Hong Kong, 4 Jan 2023
- **Session Chair**, The 10th International Conference of Asian Society for Precision Engineering and Nanotechnology (ASPEN) 2023, Hong Kong, 24 Nov 2023

Research Grant

Scalable manufacturing of antiviral self-cleaning surfaces against respiratory infectious diseases

RGC Collaborative Research Fund - Young Collaborative Research Grant Scheme (external)

Amount: 4,169,826 HKD

Project ID: C6001-22Y

Period: 06/2023-05/2026

Capacity: **Project Coordinator (PC)**

Performance Control and Microstructure Analysis of Clay Mineral-based Cathode Materials for Lithium-sulfur Batteries

ITC Mainland-Hong Kong Joint Funding Scheme (external)

Amount: 5,622,647 HKD

Project ID: MHP/060/21

Period: 09/2022-08/2024

Capacity: **Principal Investigator (PI)**

Mass transportation and photothermal phenomena in laser manufactured solar steam generator

RGC Early Career Scheme (external)

Amount: 791,961 HKD

Project ID: 25201620

Period: 01/2021-12/2023

Capacity: **Principal Investigator (PI)**

Portable thermal sterilizer for surgical masks with laser-induced graphene (internal)

UGC Bridge Gap Fund (internal)

Amount: 250,000 HKD

Project ID: NA475

Period: 07/2021-06/2022

Capacity: **Principal Investigator (PI)**

Advanced laser manufacturing of antimicrobial armor on public facilities to protect against the spread of COVID-19

University Development Grant (internal)

Amount: 200,000 HKD

Project ID: DG22EG03

Period: 07/2021-12/2021

Capacity: **Principal Investigator (PI)**

HKUST Startup fund

Startup for new faculty (internal)

Amount: 1,500,000 HKD

Project ID: R9274

Period: 12/2020-12/2025

Capacity: **Principal Investigator (PI)**

Laser-induced forward transfer of graphene on ultra-precision machined substrates

State Key Laboratory in Ultraprecision Machining Technology Fund (internal)

Amount: 250,000 HKD

Project ID: BBX9

Period: 04/2019-03/2021

Capacity: **Principal Investigator (PI)**

Research Profile

Google Scholar: [1-j83GUAAAAJ](#) | H-index: **28** | Citation: **2672**

ResearcherID: [N-6865-2013](#) | H-index: **25** | Citation: **2185**

Scopus: [58265313100](#) | H-index: **27** | Citation: **2322**

ORCID: [0000-0001-6259-3209](#) | Verified peer reviews: **200** | Verified editor records: **57**

Summary of Publication during Evaluation Period

Name of Journal	Impact Factor	Number of Publication
Energy & Environmental Science	32.4	1
Nano-Micro Letters	31.6	1
Advanced Materials	27.4	1
Science Robotics	26.1	1
Advanced Functional Materials	18.5	1
Nano Energy	16.8	1
ACS Nano	15.8	2
Angewandte Chemie	16.1	1
Advanced Science	14.3	2
Small	13.0	1
Small Methods	10.7	2
Biosensors and Bioelectronics	10.7	1
Journal of Materials Chemistry A	10.7	1
Carbon	10.5	1
Nano Research	9.5	1
Materials Today Energy	9.0	1
ACS Applied Materials & Interface	8.3	1
ACS Sensors	8.2	1
Topics in Current Chemistry	7.1	1
Science China-Materials	6.8	1
Solar Energy Materials and Solar Cells	6.3	1
Journal of Materials Chemistry C	5.7	1
Macromolecules	5.1	1
Global Challenges	4.4	1
Advanced Materials Interface	4.3	2
Journal of Applied Physics	2.7	1

Representative Publication

PolyU

- H. Zhong, Z. Zhu, J. Lin, C. F. Cheung, V. L. Lu, F. Yan, C.-Y. Chan, **G. Li***, “[Reusable and Recyclable Graphene Masks with Outstanding Superhydrophobic and Photothermal Performances](#)”, *ACS Nano*, 14, 6213–6221, 2020. (citation: 339, **ESI Highly Cited Papers**)[solo corresponding author]
 - H. Zhong, Z. Zhu, P. You, J. Lin, C. F. Cheung, V. L. Lu, F. Yan, C.-Y. Chan, **G. Li***, “[Plasmonic and Superhydrophobic Self-Decontaminating N95 Respirators](#)”, *ACS Nano*, 14, 8846–8854, 2020.(citation: 105)[solo corresponding author]
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HKUST

- Y. Pan, R. Yu, Y. Jiang, H. Zhong, Q. Yuan, C. K. W. Lee, R. Yang, S. Chen, Y. Chen, **G. Li***, “Heterogeneous CuxO Nano-Skeletons from Waste Electronics for Enhanced Glucose Detection,” *Nano-Micro Letters*, 2024. [solo corresponding author]
- Y. Chen, M. Tan, R. Yang, C. K. W. Lee, H. Zhong, Y. Xu, Y. Huang, M. Tang, **G. Li***, “[Laser-Guided Self-Assembly of Thin Films into Micro-Rolls](#)”, *Adv. Funct. Mater.* 34, 2400090, 2024 (highlighted as Inside Front Cover)[solo corresponding author]
- Y. Huang, H. Zhong, R. Yang, Y. Pan, J. Lin, C. K. W. Lee, S. Chen, M. Tan, X. Lu, W. Y. Poon, Q. Yuan and **G. Li***, “[Multifunctional Laser-induced Graphene Circuits and Laser-printed Nanomaterials toward Non-invasive Human Kidney Function Monitoring](#)”, *Biosensors and Bioelectronics*, 259, 116386, 2024. [solo corresponding author]
- H. Liu, H. Zhong, Q. Yuan, R. Yang, M. Kim, Y. H. T. Chan, S. Chen, J. Lin, and **G. Li***, “[Roll-to-Roll Manufacturing of Breathable Superhydrophobic Membranes](#)”, *Small Methods*, 2400038, 2024. [solo corresponding author]
- M. Tang, H. Zhong, X. Lu, R. Yang, C. K. W. Lee, Y. Pan, Y. Chen, and **G. Li***, “[In-situ Electrical Impedance Tomography for Visualizing Water Transportation in Hygroscopic Aerogels](#)”, *Advanced Science*, 2024. DOI: 10.1002/advs.202402676 [solo corresponding author]
- Y. Huang, R. Yang, H. Zhong, C. K. W. Lee, Y. Pan, M. Tan, Y. Chen, N. Jiang, and **G. Li***, “[High-Throughput Automatic Laser Printing Strategy toward Cost-effective Portable Integrated Urea Tele-Monitoring System](#)”, *Small Methods*, 8, 2301184, 2023 [solo corresponding author]

Patents

HKUST:

1. **G. Li**, Y.H. Chan, K.W. Lee, H. Zhong, Spherical Conductive Heater for Efficient and Precise Food Cooking Applications, US provision 63570223, 2024
 2. **G. Li**, Y. Xu, H. Zhong, Ultrafast and Flexible Laser-patterned Joule Heater for Highly Efficient Cash Sterilization, US provision No. 63568428, 2024
 3. **G. Li**, H. Liu, Roll-to-roll Manufacturing of Breathable Superhydrophobic Membranes, US provision No.63568426, 2024
 4. **G. Li**, Y. Xu, K.W. Lee, H. Zhong, M. Kim, J. Lin, W. Y. Poon, Q. Yuan, H. Liu, Y.H. Chan, W. H. Tam, Automated Robotic Bedbug Eradication Device for Mattresses, US provision No. 63602437, 2023
 5. **G. Li**, K.W. Lee, Y. Xu, Y. Pan, H. Liu, Q. Yuan, M. Tang, AI-Generated Pattern for Laser-induced Caramel Interaction on Cookies, US provision No. 63588003, 2023
 6. **G. Li**, K.W. Lee, Y.H. Chan, Y. Xu, AI-Generated Pattern for Multi-Food Material Extrusion, 3D Printing, and Laser Patterning on Fortified Mooncakes, US provision No. 63581985, 2023
 7. **G. Li**, K.W. Lee, Y.H. Chan, Tele-monitoring footwear systems for healthy aging, US provision No. 61510065, 2023
 8. **G. Li**, K.W. Lee, Y. Xu, Q. Yuan, C. Mu, An integrative system for food 3D printing and multi-level cooking, US provision No. 63416931, 2022 (**licensed** to [Elevatefood](#))
 9. **G. Li**, Y. Xu, K.W. Lee, A. Chin, L. Poon, Ultrafast, Portable, Flexible, and Efficient Smart Heater for Face Mask Sterilization, US provision No. 63325601, 2022
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PolyU:

1. **G. Li**, H. Zhong, Z. Zhu, J. Lin, Reusable and Recyclable Graphene Masks with Outstanding Superhydrophobic and Photothermal Performance, US provision No. 63003326, 2020

Research Conference

1. Laser Printing of Organic Functional Materials, **Li, Guijun**, International Union of Materials Research Societies –18th International Conference on Electronic Materials 2024 (IUMRS-ICEM 2024), 16-20 May 2024 (**Invited Speaker**)
2. Advanced Laser Manufacturing of Nano Functional Materials, **Li, Guijun**, The 3rd China Metamaterials Conference, Wuzhen, Zhejiang, China, 9-12 May 2024 (**Invited Speaker**)
3. Development of an Integrative Multi-Level Cooking System for 3D-Printed Food, Lee, Kong Wai; Xu, Yang; Pan, Yexin; Yuan, Qiaoyaxiao; Zhong, Haosong; **Li, Guijun**, 9th International Conference on Food Chemistry & Technology, Paris, France, 27-29 November 2023
4. Laser-Based Selective Nanoimprint Method for Fabrication of Optical Metasurfaces as Modulating Layers for Fluorescent Materials, Chan, Yee Him Timothy; **Li, Guijun**, 2023 MRS Fall Meeting, Boston, USA, 27 November-2 December 2023
5. Advanced Laser Manufacturing for interdisciplinary applications, **Li, Guijun**, The 10th International Conference of Asian Society for Precision Engineering and Nanotechnology (ASPEN) 2023, Hong Kong, 21 - 24 November 2023. (**Invited Speaker**)
6. Laser-induced Superhydrophobicity on Polymer-coated Aluminum Surfaces, LIU, Huan; **LI, Guijun**, ACS Fall 2023, San Francisco, CA, 13-17 August 2023
7. Ultrafast flexible Joule-heating sterilizer by direct laser scribing on copper-polyimide film, Xu, Yang; Chin, Alex W. H.; Lin, Jing; CHEN, Yi; Lee, Kong Wai; Zhong, Haosong; **Li, Guijun**, ACS Fall 2023, San Francisco, CA, USA, 13-17 August 2023
8. Laser-Printed Highly Sensitive Flexible Urea Sensors, Huang, Yangyi; Lee, Kong Wai; Jiang, Na; **Li, Guijun**, The 5th IEEE International Conference on Flexible and Printable Sensors and Systems, FLEPS 2023, Boston, USA, 9-12 July 2023
9. Advanced Laser Manufacturing of Functional Materials, **Li, Guijun**, The 4th Optoelectronics Global Conference, Shenzhen, China, Sep 2019. (**Invited Speaker**)

Media Coverage

1. Chief Executive of Hong Kong, Mr. John Lee, gave high praise to our 3D-printed mooncake on his [Facebook](#)
2. AIS News: [ISD Research Team Showcased 3D Food Printing Technology on the Members' Day of Hong Kong Science Museum](#)
3. AIS News: [HKUST Achieves New Records at 49th International Exhibition of Inventions Geneva](#)
4. AIS News: [ISD Research Team Introduced a New Approach to Creating 3D Microstructures](#)
5. AIS News: [3D-printing Mooncakes with AI by ISD Postgraduate Students](#)
6. AIS News: [AIS Faculty Named Among the World's Top 2% of the Most-cited Scientists 2023 by Stanford University](#)
7. AIS News: [ISD Research Team led by Prof. Mitch LI Develops New Ultrafast Laser Patterning Device for Cash Sterilization](#)
8. SENG News: [Four Professors Awarded Grants in RGC Collaborative Research Fund 2022/23](#)
9. 有线電視: [智創未來 | 團隊開發 3D 打印烹調](#)
10. Now 財經台: [潮玩科技 3D 姜餅人](#)
11. 星島日報網: [科大學生首創 3D 打印月餅](#)
12. 頭條日報網: [科大學生首創 3D 打印月餅](#)
13. 明報新聞網: [科大 3D 打印月餅 10 分鐘制成](#)
14. 匯港通訊: [科大學生 3D 打印制作月餅慶中秋](#)
15. 香港經濟日報網: [3D 打印制月餅 | 科大創本地先河](#)
16. 信報財經版: [3D 打印月餅 10 分鐘食得](#)
17. 大公網: [月滿中秋 | 香江明月夜細味中秋時](#)
18. 點新聞: [科大學生 3D 打印月餅慶節制作紫薯及奶黃口味](#)
19. 大公文匯網: [香港仔時評 | 應提倡綠色簡約中秋節](#)

Full Publication List

During Evaluation Period (Dec 2018-Aug 2024)

1. Y. Pan, R. Yu, Y. Jiang, H. Zhong, Q. Yuan, C. K. W. Lee, R. Yang, S. Chen, Y. Chen, G. Li*, "Heterogeneous CuxO Nano-Skeletons from Waste Electronics for Enhanced Glucose Detection," Nano-Micro Letters, 2024. [solo corresponding author]
2. Y. Chen, M. Tan, R. Yang, C. K. W. Lee, H. Zhong, Y. Xu, Y. Huang, M. Tang, and G. Li*, "Laser-Guided Self-Assembly of Thin Films into Micro-Rolls," Advanced Functional Materials, 2400090, 2024.[solo corresponding author]
3. H. Liu, H. Zhong, Q. Yuan, R. Yang, M. Kim, Y. H. T. Chan, S. Chen, J. Lin, and G. Li*, "Roll-to-Roll Manufacturing of Breathable Superhydrophobic Membranes," Small Methods, 2400038, 2024.[solo corresponding author]
4. M. Tang, H. Zhong, X. Lu, R. Yang, C. K. W. Lee, Y. Pan, Y. Chen, and G. Li*, "In-situ Electrical Impedance Tomography for Visualizing Water Transportation in Hygroscopic Aerogels," Advanced Science, 2024. DOI: 10.1002/advs.202402676 [solo corresponding author]
5. Y. Huang, H. Zhong, R. Yang, Y. Pan, J. Lin, C. K. W. Lee, S. Chen, M. Tan, X. Lu, W. Y. Poon, Q. Yuan and G. Li*, Biosensors and Bioelectronics, 2024, DOI:10.1016/j.bios.2024.116386.[solo corresponding author]
6. Y. Xu, J. Lin, Y. Chen, H. Zhong, C. K. W. Lee, M. Tan, S. Chen, M. Kim, E. W. Y. Poon, T. Y. H. Chan, A. Q. Yuan, M. Tang, R. Yang, Y. Pan, Y. Fu, and G. Li*, "Highly Efficient Cash Sterilization with Ultrafast and Flexible Joule-Heating Strategy by Laser Patterning," Advanced Materials Interfaces, 2024. [solo corresponding author]
7. Y. Zhou, Z. Sun, Y. Ding, Z. Yuan, X. Qiu, Y. B. Cao, Z. Wan, Z. Long, S. Poddar, S. Kumar, W. Ye, C. L. J. Chan, D. Zhang, B. Ren, Q. Zhang, H.-S. Kwok, G. Li, and Z. Fan, "An ultra-wide field-of-view pinhole compound eye using hemispherical nanowire array for robot vision," Science Robotics, 2024.
8. R. Ao, Z. Zhu, S. Zhang, Q. Zhang, C. Yan, F. Tu, T. Li, G. Li, L. Fu, A. Tang, and H. Yang, "Halloysite-derived mesoporous silica with high ionic conductivity improves Li-S battery performance," Chemical Communications, D4CC01111B, 2024.
9. Y. Huang, R. Yang, H. Zhong, C. K. W. Lee, Y. Pan, M. Tan, Y. Chen, N. Jiang, and G. Li*, "High-Throughput Automatic Laser Printing Strategy toward Cost-effective Portable Integrated Urea Tele-Monitoring System," Small Methods, 2301184, 2023. [solo corresponding author]
10. C. K. W. Lee, Y. Pan, R. Yang, M. Kim, and G. Li*, "Laser-Induced Transfer of Functional Materials," Topics in Current Chemistry, 381, 18, 2023. [solo corresponding author]
11. D. Xu, H. Zhong, G. Li, S. S. To, L. Lu, Efficient plasmonic enhanced solar evaporation achieved by laser-assisted Cu /Graphene nanocomposite. Carbon 204, 231–237, 2023.
12. H.-L. Loi, J. Cao, C.-K. Liu, Y. Xu, G. Li, and F. Yan, "Highly Sensitive Broadband Phototransistors Based on Gradient Tin/Lead Mixed Perovskites," Small, 19, 2205976, 2023.
13. D. Zhang, Y. Zhu, R. Jiao, J. Zhou, Q. Zhang, S. Poddar, B. Ren, X. Qiu, B. Cao, Y. Zhou, C. Wang, K.-F. Wang, Y. Zi, H. Zeng, G. Li, H. Yu, Q. Zhou, and Z. Fan, "Metal seeding growth of three-dimensional perovskite nanowire forests for high-performance stretchable photodetectors," Nano Energy, 111, 108 386, 2023.
14. T. Wang, H.-L. Loi, J. Cao, Z. Qin, Z. Guan, Y. Xu, H. Cheng, G. Li, C.-S. Lee, X. Lu, and F. Yan, "High Open Circuit Voltage Over 1 V Achieved in Tin-Based Perovskite Solar Cells with a 2D/3D Vertical Heterojunction," Advanced Science, 2200242, 2022.
15. H. Yu, H. Zhang, J. Li, Z. Zhao, M. Deng, Z. Ren, Z. Li, C. Xue, G. Li, and Z. Chen, "Rapid and Unamplified Detection of SARS-CoV-2 RNA via CRISPR-Cas13a-Modified Solution-Gated Graphene Transistors," ACS Sensors, 7, 3923–3932, 2022.

16. J. Cao, H.-L. Loi, Y. Xu, X. Guo, N. Wang, C.-k. Liu, T. Wang, H. Cheng, Y. Zhu, **G. Li**, W.-Y. Wong, and F. Yan, "High-performance tin-lead mixed perovskite solar cells with vertical compositional gradient," *Advanced Materials*, 2107729, 2021.
17. N. Jiang, Y. Wang, K. C. Chan, C.-Y. Chan, H. Sun*, and **G. Li***, "Additive Manufactured Graphene Coating with Synergistic Photothermal and Superhydrophobic Effects for Bactericidal Applications," *Global Challenges*, 4, 1900054, 2020.
18. **G. Li***, "Direct laser writing of graphene electrodes," *Journal of Applied Physics*, 127, 10901, 2020. [**solo corresponding author**][**First author**]
19. J. Lin, Z. Zhu, C. F. Cheung, F. Yan, and **G. Li***, "Digital manufacturing of functional materials for wearable electronics," *Journal of Materials Chemistry C*, 8, 10587–10603, 2020.[**solo corresponding author**]
20. Z. Meng, **G. Li**, S.-C. Yiu, N. Zhu, Z.-Q. Yu, C.-W. Leung, I. Manners, and W.-Y. Wong, "Nanoimprint Lithography-Directed Self-Assembly of Bimetallic Iron–M (M=Palladium, Platinum) Complexes for Magnetic Patterning," *Angew. Chem.*, 59, 11521–11526, 2020.
21. Y. Wang, **G. Li**, and K. C. Chan, "Cost-effective and eco-friendly laser-processed cotton paper for high-performance solar evaporation," *Solar Energy Materials and Solar Cells*, 218, 110693, 2020.
22. P. You, **G. Li**, G. Tang, J. Cao, and F. Yan, "Ultrafast laser-annealing of perovskite films for efficient perovskite solar cells," *Energy & Environmental Science*, 13, 1187–1196, 2020.
23. H. Zhong, Z. Zhu, J. Lin, C. F. Cheung, V. L. Lu, F. Yan, C.-Y. Chan, and **G. Li***, "Reusable and Recyclable Graphene Masks with Outstanding Superhydrophobic and Photothermal Performances," *ACS Nano*, 14, 6213–6221, 2020. [**solo corresponding author**]
24. H. Zhong, Z. Zhu, P. You, J. Lin, C. F. Cheung, V. L. Lu, F. Yan, C.-Y. Chan, and **G. Li***, "Plasmonic and Superhydrophobic Self-Decontaminating N95 Respirators," *ACS Nano*, 14, 8846–8854, 2020. [**solo corresponding author**]
25. **G. Li**, Z. Meng, J. Qian, C.-L. Ho, S. P. Lau, W.-Y. Wong, and F. Yan, "Inkjet-printed pseudocapacitive electrodes on laser-induced graphene for electrochemical energy storage," *Materials Today Energy*, 12, 155–160, 2019.[**First author**]
26. **G. Li**, X. Mo, W.-C. Law, and K. C. Chan, "3D printed graphene/nickel electrodes for high areal capacitance electrochemical storage," *Journal of Materials Chemistry A*, 7, 4055–4062, 2019.[**First author**]
27. **G. Li**, X. Mo, W.-C. Law, and K. C. Chan, "Wearable Fluid Capture Devices for Electrochemical Sensing of Sweat," *ACS Applied Materials & Interfaces*, 11, 238–243, 2019.[**First author**]
28. **G. Li**, X. Mo, Y. Wang, C.-Y. Chan, and K. C. Chan, "All 3D-Printed Superhydrophobic/Oleophilic Membrane for Robotic Oil Recycling," *Advanced Materials Interfaces*, 6, 1900874, 2019.[**First author**]
29. Z. Meng, C.-L. Ho, H.-F. Wong, Z.-Q. Yu, N. Zhu, **G. Li**, C.-W. Leung, and W.-Y. Wong, "Lithographic patterning of ferromagnetic FePt nanoparticles from a single-source bimetallic precursor containing hemiphasmic structure for magnetic data recording media," *SCIENCE CHINA Materials*, 62, 566, 2019.
30. Z. Meng, F. Xiao, Z. Wei, X. Guo, Y. Zhu, Y. Liu, **G. Li**, Z.-Q. Yu, M. Shao, and W.-Y. Wong, "Direct synthesis of L10-FePt nanoparticles from single-source bimetallic complex and their electrocatalytic applications in oxygen reduction and hydrogen evolution reactions," *Nano Research*, 12, 2954–2959, 2019.
31. S.-C. Yiu, A. Nunns, C.-L. Ho, J. H.-L. Ngai, Z. Meng, **G. Li**, J. Gwyther, G. R. Whittell, I. Manners, and W.-Y. Wong, "Nanostructured Bimetallic Block Copolymers as Precursors to Magnetic FePt Nanoparticles," *Macromolecules*, 52, 3176–3186, 2019.

Before Evaluation Period (Jan 2010-Nov 2018)

1. H. Jiang, J. Feng, H. Zhao, **G. Li**, G. Yin, Y. Han, F. Yan, Z. Liu, and S. Liu, "Low Temperature Fabrication for High Performance Flexible CsPbI₂Br Perovskite Solar Cells," *Advanced Science*, 5, 1801117, 2018.
2. **G. Li**, W.-C. Law, and K. C. Chan, "Floating, Highly Efficient, and Scalable Graphene Membranes for Seawater Desalination using Solar Energy," *Green Chemistry*, 20, 3689–3695, 2018.
3. Z. Meng, C.-L. Ho, **G. Li**, S.-M. Ng, H.-F. Wong, C.-W. Leung, and W.-Y. Wong, "Edge decoration of MoS₂ monolayer with ferromagnetic CoFe nanoparticles," *Materials Research Express*, 5, 115010, 2018.
4. J. Qian, Y. S. Chui, **G. Li**, M. Lin, C. M. Luk, C. H. Mak, B. Zhang, F. Yan, and S. P. Lau, "Kinetically controlled redox behaviors of K_{0.3}MnO₂ electrodes for high performance sodium-ion batteries," *Journal of Materials Chemistry A*, 6, 10803–10812, 2018.
5. J. Huang, K. C. Yung, Z. Meng, D. T. C. Ang, and **G. Li***, "Additive Manufacturing of Cobalt-Based Organic Ferromagnetic Materials," *IEEE Magnetics Letters*, 8, 2104405, 2017.
6. J. Li, S. Yuan, G. Tang, **G. Li**, D. Liu, J. Li, X. Hu, Y. Liu, J. Li, Z. Yang, S. F. Liu, Z. Liu, F. Gao, and F. Yan, "High-Performance, Self-Powered Photodetectors Based on Perovskite and Graphene," *ACS Applied Materials & Interfaces*, 9, 42779–42787, 2017.
7. S. Liu, Y. Fu, **G. Li**, L. Li, H. K.-w. Law, X. Chen, and F. Yan, "Conjugated Polymer for Voltage-Controlled Release of Molecules," *Advanced Materials*, 29, 1701733, 2017.
8. Z. Meng, **G. Li**, H.-F. Wong, S.-M. Ng, S.-C. Yiu, C.-L. Ho, C.-W. Leung, I. Manners, and W.-Y. Wong, "Patterning of L1(0) FePt nanoparticles with ultra-high coercivity for bit-patterned media," *Nanoscale*, 9, 731–738, 2017.
9. Z. Meng, **G. Li**, N. Zhu, C.-L. Ho, C.-W. Leung, and W.-Y. Wong, "One-pot synthesis of ferromagnetic FePd nanoparticles from single-source organometallic precursors and size effect of metal fraction in polymer chain," *Journal of Organometallic Chemistry*, 849-850, 10–16, 2017.
10. Z. Meng, **G. Li**, S.-M. Ng, H.-F. Wong, S.-C. Yiu, C.-L. Ho, C.-W. Leung, and W.-Y. Wong, "Nanopatterned L1(0)-FePt nanoparticles from single-source metallopolymer precursors for potential application in ferromagnetic bit-patterned media magnetic recording," *Polymer Chemistry*, 7, 4467–4475, 2016.
11. S. M. Ng, H. F. Wong, W. C. Wong, C. K. Tan, S. Y. Choi, C. L. Mak, **G. Li**, Q. C. Dong, and C. W. Leung, "WS₂ nanotube formation by sulphurization: Effect of precursor tungsten film thickness and stress," *Materials Chemistry and Physics*, 181, 352–358, 2016.
12. W. K. C. Yung, B. Sun, J. Huang, Y. Jin, Z. Meng, H. S. Choy, Z. Cai, **G. Li***, C. L. Ho, J. Yang, and W. Y. Wong, "Photochemical Copper Coating on 3D Printed Thermoplastics," *Scientific Reports*, 6, 31188, 2016.
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Teaching

HKUST

ISDN2400, Physical Prototyping

- Spring 2020-2021
- Spring 2021-2022

ISDN2603, Materials, Shape and Design (developed at HKUST)

- Spring 2022-2023
- Fall 2023-2024

ISDN5400/ISDN 6810A, Advanced Manufacturing (developed at HKUST)

- Spring 2021-2022
- Fall 2022-2023
- Spring 2023-2024

ISDN4000K, Materials for Physical Prototyping (developed at HKUST)

- Winter 2021-2022

ISDN4000U, Design with 3D Visual Communication Technologies (developed at HKUST)

- Spring 2023-2024
-

PolyU

ISE3006, Materials and Processes Selection

- Fall 2019-2020

ISE373, Packaging and Storage Technology

- Fall 2019-2020
- Fall 2020-2021

ISE374, Logistics Facility Design

- Fall 2019-2020
- Fall 2020-2021

ENG1003, Freshman Seminar

- Fall 2019-2020
- Fall 2020-2021

ISE3S01, Engineering for the Needy

- Fall 2019-2020
- Fall 2020-2021

ISE2S02, Comprehending and Overcoming Learning Hurdles in STEM for Local Schools

- Fall 2019-2020
- Fall 2020-2021

Research Students Supervised

Graduated:

1. Zhaoran Zhu, MPhil (2021-2023, now PhD candidate at Imperial College London)
-

Current:

PhD student

1. Yi Chen (Since Spring 2021)
 2. Yang Xu (Since Spring 2021)
 3. Huan Liu (Since Fall 2021)
 4. Yexin Pan (Since Fall 2021)
 5. Yee Him Chan (Since Fall 2021)
 6. Kong Wai Lee (Since Spring 2022)
 7. Miao Tang (Since Fall 2022)
 8. Yangyi Huang (Since Fall 2022)
 9. Minseong Kim (Since Fall 2023, HKPFS awardee)
 10. Siyu Chen (Since Fall 2023)
 11. Xupeng Lu (Since Fall 2023)
 12. Min Tan (Since Fall 2023)
-

MPhil student

1. Jing Lin (Since Fall 2022)
 2. Wing Yan Poon (Since Fall 2023)
-

Thesis Examination Committee

1. 2024 Ph.D. Chem, Jianlei Wu
2. 2023 Ph.D. Chem, Ronghua Zhang
3. 2022 Ph.D. MAE, Wei Yi
4. 2021 Ph.D. MAE, Peng Zhou
5. 2021 Ph.D. MAE, Yu He
6. 2021 Ph.D. ECE, Shi Shen
7. 2021 M.Phil. ECE, Ho Man Kwan

Service

- RAE 2026 Impact Case Study, UoA 12, "Innovative Food 3D Printing and Cooking"
- Represent ISD to showcase RGC research during the RGC visit Jun 8, 2023
- Promotion of ISD by food 3D printing show at Science Museum of Hong Kong, Mar 28, 2024
- Promotion of ISD by showing 3D printing food technology to LegCo Oct 3, 2023
- Promotion of ISD by sharing 3D printed mooncake to Mr. John Lee, Chief Executive of Hong Kong, Sep 28, 2023

Member of

- ISD UG Student Affair sub-committee
- ISD UG Recruitment and Admission sub-committee
- ISD PG Committee
- ISD Research Committee