

***CURRICULUM VITAE* (基本資料表)**

Yu-Cheng Chiu (邱昱誠)

Associate Professor

Department of Chemical Engineering, National Taiwan University of
Science and Technology, Taiwan

(臺灣科技大學化工系)



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Career:

- 2022- Present** Associate Professor, National Taiwan University of Science and Technology, Taiwan
- 2025- Present** Chairman, Intellectual Property and Technology Transfer Center, National Taiwan University of Science and Technology, Taiwan
- 2023- Present** Research Fellow, Industrial Technology Research Institute, Taiwan
- 2022- Present** Director, Semiconductor Executive Master of Research and Development, National Taiwan University of Science and Technology, Taiwan
- 2021- 2023** JAIST Visiting Research Fellow, Japan Advanced Institute of Science and Technology, Japan
- 2018** Specially Appointed Assistant Professor, Hokkaido University, Japan
- 2017-2022** Assistant Professor, National Taiwan University of Science and Technology, Taiwan
- 2016-2017** Assistant Professor, Department of Chemical Engineering and Materials Science, Yuan Ze University, Taiwan
- 2014-2016** Postdoctoral Scholar, Department of Chem. E., Stanford University, USA
- 2013-2014** Postdoctoral Scholar, Department of Chem. E., National Taiwan University, Taiwan

Education:

- 2012** Ph. D. Department of Chemical Engineering, National Taiwan University, Taiwan
- 2008** M. S., National Taiwan University of Science and Technology, Taiwan
- 2006** B. S., Feng Chia University, Taiwan

Research Interests:

Stretchable/Elastic/Self-Healing Semiconductor, Polymer for Transistor and Memory Devices, Conjugated Polymer, Block Copolymer, Polymer for Solid Electrolyte/Anode-Free LIB

Honors and Awards:

1. 2025-2026 臺灣科技大學-優良研究獎 (學術研究類)
2. 榮獲114年度國科會吳大猷先生紀念獎計畫(高分子學門)
3. 2024 吳大猷先生紀念獎
4. 2023 李長榮學術研究傑出青年教授獎
5. 臺灣科技大學- 113學年度第1學期創新教學獎勵

6. 榮獲111年度 國科會優秀年輕學者研究計畫(高分子學門)
7. 2023-2024 臺灣科技大學-傑出研究獎 (學術研究類)
8. 111學年度 臺灣科技大學-教學優良獎
9. 2022 中華民國高分子學會-傑出青年高分子科技獎
10. 獲選 2022 Emerging Investigators-Journal of Materials Chemistry C, (IF: 8.067, RSC publisher)
11. 獲選 Rising Stars in Polymer Science 2022-Polymer Journal, (IF: 3.135, NPG publisher)
12. JAIST Visiting Research Fellow, Japan Advanced Institute of Science and Technology, Japan (2021.12-2023.03)
13. 2020 中華民國界面科學學會優秀年輕學者獎
14. 獲邀聘 Specially Appointed Assistant Professor, Hokkaido University, Japan (2018).
15. 2018 臺灣科技大學-年輕學者研究獎
16. 指導大專生研究計畫 黃彥馨同學獲得108年度研究創作獎
17. The Best Prize in Poster Presentation, 2018 Bowei Research Conference, Taiwan, 2018.
18. 科技部 104 年度博士後研究人員學術著

International Invited Speeches:

- (1) Y. C. Chiu,* 2025, 74th SPSJ Symposium on Macromolecules, The Society of Polymer Science, Osaka, Japan. (Invited Speaker)
- (2) Y. C. Chiu,* 2025, The 19th International Conference on Quality in Research (QIR 2025), Yogyakarta, Indonesia. (Invited Speaker)
- (3) Y. C. Chiu,* 2023, The Annual Meeting of Polymer Society Korea (PSK), Jeju, Korea. (Invited Speaker)
- (4) Y. C. Chiu,* 2023, the 7th International Conference on Advanced Electromaterials (ICAE 2023), Jeju, Korea. (Invited Speaker)
- (5) Y. C. Chiu,* 2022, International Meeting on Information Display (IMID 2022), Busan, Korea. (Invited Speaker)
- (6) Y. C. Chiu,* 2022, 71st Annual Meeting of the Society of Polymer Science, Japan (SPSJ). (Invited Speaker)
- (7) Y. C. Chiu,* 2019, The International Conference on Electronic Materials Leading the Future (ICE-MLF 2019), Kyung Hee University, Seoul, Korea. (Invited Speaker)
- (8) Y. C. Chiu,* 2019, The 3rd Japan-Taiwan International Engineering Forum, Tokyo, Japan. (Invited Speaker)
- (9) Y. C. Chiu,* 2019, *Frontiers in Multidimensional Organic Semiconductors*, Korea University, Seoul, Korea. (Invited Speaker)
- (10) Y. C. Chiu,* 2018, *7th Synchrotron Radiation in Polymer Science (SPRS 2018)*, Gyeongju, Korea. (Invited Speaker)
- (11) Y. C. Chiu,* 2018, *Japan-Korea Joint Symposium on Polymer Science (2018 JKJS)*, Sapporo, Japan. (Invited Speaker)
- (12) Y. C. Chiu,* 2018, *1st Asian-France Workshop (1st AFW)* on "Soft Matter Self-Assembly & Applications", Grenoble, France. (Invited Speaker)
- (13) Y. C. Chiu,* 2017, *International Conference on Functional Carbons (2017 ICFC)*, Taipei, Taiwan. (Invited Speaker)
- (14) Y. C. Chiu,* 2017, *Japan-Taiwan Bilateral Polymer Symposium (2017 JTBPS)*, Yonezawa, Japan. (Invited Speaker)
- (15) Y. C. Chiu,* 2016, *International Symposium for Advanced Materials Research (ISAMR 2016)*, Sun Moon Lake, Taiwan. (Invited Speaker)

Publications: (†= equal contribution; *= corresponding author)

1. C.-Y. Lin, M.-N. Chen, J. Kimpel, W. He, G.-S. Liou,* [Y.-C. Chiu.*](#) T. Michinobu.* “Enhanced Photoresponsive Transistor Memory Performance through [2+2] Cycloaddition–Retroelectrocyclization of Tröger’s Base–Carbazole Copolymer” *ACS Appl. Polym. Mater.*, **2025**, *7*, 9286–9293. (Q1, 23/94, POLYMER SCIENCE; SCI, IF: 4.7)
2. C.-C. Lin,[†] S. P. Prakoso,[†] (†co-first author), L. Laysandra, M.-H.Chang, H.-I Jo, Y.-T. Li, K.-L. Chen, C.-Y. Chen, L. M. Cowen, E. Fujiwara, A. Nyayachavadi, S. Rondeau-Gagné, B. C. Schroeder, S. Ando, W.-T. Chuang, J.-M. Lin,* [Y.-C. Chiu.*](#) “Altering the Microstructure of Conjugated Polymers in Solution via Microwave Irradiation” *Macromolecules*, **2025**, *58*, 7605–7615. (Q1, 15/94, POLYMER SCIENCE; SCI, IF: 5.2)
3. M.-N. Chen, R. Iwasaki, M. Ashiya, H. Zhao, Q.-A. Hong, Y.-T. Li, K.-L. Chen, M. M. Mburu, W.-T. Li, X. Gu, W.-H. Chiang,* T. Isono,* T. Satoh,* [Y.-C. Chiu.*](#) “Block copolymer architectures with poly(ϵ -caprolactone) for modulating interactions to enhance selectivity and stability of semiconducting single-walled carbon nanotube dispersions” *Chem. Eng. J.* **2025**, *519*, 165430. (Q1, 8/175, ENGINEERING, CHEMICAL; SCI, IF:13.2)
4. Z. Cao,[†] Z. Li,[†] (†co-first author), A. Awada, S. A. Tolba, M. Mooney, Y. Wang, [Y.-C. Chiu,](#) S. Rondeau-Gagné,* W. Xia,* X. Gu.* “Approaching highly stable optoelectronic device operation at elevated temperature by locking backbone torsion of conjugated polymers” *Matter*, **2025**, *8*, 102195. (Q1, 26/460, MATERIALS SCIENCE, MULTIDISCIPLINARY; SCI, IF: 17.5)
5. D. M. Sentosa, L. Laysandra, D. Kurniawan, W.-H. Chiang, [Y.-C. Chiu.*](#) “Microplasma-Induced Radical Polymerization for Green Elastic Polymer and Luminescent Nanocomposites” *Macromol. Rapid Commun.* **2025**, *46*, 2401138. (Q2, 30/94, POLYMER SCIENCE; SCI, IF: 4.3)
6. C.-H. Chung,[†] L.-T. Wu,[†] (†co-first author), D. M. Sentosa, C.-C. Ho, P.-W. Chi, W.-C. Hsu, K.-W. Yeh, C.-C. Chang, B. J. Hwang, M.-K. Wu,* J.-C. Jiang,* C.-C. Hu,* [Y.-C. Chiu.*](#) “Enhancing Anode-Free Battery Performance with Self-Healing Single-Ion Conducting PAMPS-co-PBA Copolymer Interfaces” *ACS Appl. Mater. Interfaces*, **2025**, *17*, 23872–23884 (Q1, 83/460, MATERIALS SCIENCE, MULTIDISCIPLINARY; SCI, IF: 8.2)
7. T.-Y. Huang,[†] L. Laysandra,[†] Norman C.-R. Chen,[†] (†co-first author), F. Prasetyo,[Y.-C. Chiu,*](#) L.-H. Yeh,* Kevin C.-W. Wu.* “MOF composites for revolutionizing blue energy harvesting and next-gen soft electronics” *Adv. in Colloid and Int.*, **2025**, *340*, 103444. (Q1, 11/185, CHEMISTRY, PHYSICAL; SCI, IF: 19.3)
8. Y.-T. Chiang,[†]* S. B. Shivarudraiah,[†] (†co-first author), A. Wieczorek, K. H. Khoo, Z. Leong, J. W. M. Lim, Z. Xing, S. Kumar, S. F. Solari, Y.-T. Li, [Y.-C. Chiu,](#) T. C. Sum,* Y. Liu,* S. Siol,* C.-J. Shih.* “Understanding Optical Properties and Electronic Structures of High-Entropy Alloyed Perovskite Nanocrystals” *Angew. Chem.-Int. Edit.*, **2025**, e202505890. (Q1, 15/239, CHEMISTRY, MULTIDISCIPLINARY; SCI, IF: 16.9)
9. G. T. Mason, C. Lisowski, P. Kulatunga, T. C. Gomes, A. Awada, Y.-X. Hsu, [Y.-C. Chiu,](#) S. Rondeau-Gagné.* “Side-Chain Engineering of Semiconducting Polymers with Poly (benzyl ethers) Dendrons: impact on electronic and mechanical properties” *Mater. Adv.*, **2025**. (Q2, 150/460, MATERIALS SCIENCE, MULTIDISCIPLINARY; SCI, IF: 4.7)

10. A. K. Sur, A. Nyayachavadi, P. Kulatunga, N.-J. Li, [Y.-C. Chiu](#), S. Rondeau-Gagné,* "Engineering solvent resistance in semiconducting polymer films through UV-induced polydiacetylene crosslinking" *RSC Adv.*, **2025**, *15.30*: 24142-24149. (Q2, 75/239, CHEMISTRY, MULTIDISCIPLINARY; SCI, IF: 4.6)
11. L.-T. Wu, [†] Y.-T. Zhan, [†] ([†]co-first author), [Y.-C. Chiu](#), B. J. Hwang, J.-C. Jiang,* "Multifunctional Zwitterionic Self-Healing Polymer Electrolytes for Anode-Free Lithium-Metal Batteries: a Computational Perspective" *Small*, **2025**, *21*, 2503382. (Q1, 42/460, MATERIALS SCIENCE, MULTIDISCIPLINARY; SCI, IF: 12.1)
12. D.-Z. Wu, W.-C. Hsu, C.-H. Chung, H.-Y. Hsieh, W.-M. Chen, F.-Y. Wu, Y.-H. Su, H.-E. Lin, M.-K. Wu, P. M. Wu,* [Y.-C. Chiu](#),* P.-W. Chi,* "Mitigating interfacial reactions in Li₄Ti₅O₁₂ anodes through carbon shells synthesized by spray granulation" *RSC Adv.*, **2025**, *15.15*: 11881-11892. (Q2, 75/239, CHEMISTRY, MULTIDISCIPLINARY; SCI, IF: 4.6)
13. L. Laysandra, D. Bazliah, A. Njotoprajitno, K.-L. Chen, [Y.-C. Chiu](#),* "Radically Modified Polyisoprene toward a Multifunctional Rubber Moiety with Self-Healable and Recyclable Properties" *ACS Appl. Polym. Mater.*, **2025** (Q1, 23/94, POLYMER SCIENCE; SCI, IF: 4.7)
14. P.-Y. Lu, L. A. Ningsih, A. C. Heksa, C.-C. Hu, W.-C. Chen,* [Y.-C. Chiu](#),* "Solid base-assisted photocatalytic degradation of polyethylene via the Norrish mechanism through the generation of alternating polyketones" *Polym. J.*, **2025**, 1-12. (Q3, 52/94, POLYMER SCIENCE; SCI, IF: 2.7)
15. D. Bazliah, Q.-A. Hong, L. Laysandra, [Y.-C. Chiu](#),* "Grafting to" Rubber Composite for Elastic Dielectric Material" *Macromol. Chem. Phys.*, **2025**, 2400364. (Q3, 52/94, POLYMER SCIENCE; SCI, IF: 2.7)
16. J.-H. Wang, T. Paul, P. Chandan, S. P. Prakoso, P.-W. Chi,* K.-W. Yeh, C.-C. Chang,* M.-K. Wu, [Y.-C. Chiu](#),* "Rate performance enhancement in lithium-ion batteries using TiNb₂-xAlxO₇ anodes with self-generated protective layers" *Chem. Eng. J.*, **2025**, *504*: 158464. (Q1, 8/175, ENGINEERING, CHEMICAL; SCI, IF: 13.2)
17. C.-C. Hu, * M.-J. Kao, D.-M. Wang, * H.-C. Chang, [Y.-C. Chiu](#), W.-S. Hung, K.-R. Lee, J.-Y. Lai "Enhancing the efficiency of direct conversion of ultra-low concentration CO₂ in the atmosphere to CH₄: Structural modulation of the photocatalytic Janus membrane's reactive layer through integration of membrane formation mechanisms based on thermodynamics and kinetics" *J. Membr. Sci.*, **2025**, 123746. (Q1, 5/94, POLYMER SCIENCE; SCI, IF: 9.0)
18. Y.-S. Lin, C.-C. Hung, J.-C. Ho, W.-C. Chen, E. Ercan, Y.-C. Lin,* [Y.-C. Chiu](#),* W.-C. Chen,* "Multi-Level Nonvolatile Transistor Memory with Optical Rewritability Utilizing Reverse-Bias P-N Junction of Oriented Rod-Like Organic Molecules" *Adv. Funct. Mater.*, **2025**, 2416306. (Q1, 23/460, MATERIALS SCIENCE, MULTIDISCIPLINARY ; SCI, IF: 19.0)
19. S. P. Prakoso, H.-X. Peng, M.-N. Chen, Q.-A. Hong, R. Saleh, [Y.-C. Chiu](#),* "Tailoring the Tunneling-Effect-Boosted Interfacial Charge Trapping via Effective Conjugation Length" *Adv. Funct. Mater.*, **2025**, 2415415. (Q1, 23/460, MATERIALS SCIENCE, MULTIDISCIPLINARY ; SCI, IF: 19.0)
20. S. Saurabh, T.-C. Huang, Y.-T. Li, Y.-C. Li, W.-L. Wei, Y.-H. Wu, C.-Y. Lee, B.-Y. Chen, G.-C. Yin, M.-T. Tang, [Y.-C. Chiu](#),* B.-H. Lin,* "Charge Carrier Recombination Studies of Tm-Doped CsPbBr₃ by Temperature-Dependent PL and TR-PL" *Opt. Mater.*, **2024**, *156*, 115929. (Q1, 29/125, OPTICS; SCI, IF: 4.2)

21. H. Zhao, Z. Li, Y. Wang, Q.-A. Hong, W. Xia, [Y.-C. Chiu](#),* X. Gu,* "Unveiling Strong Thin Film Confinement Effects on Semirigid Conjugated Polymers" *Macromolecules*, **2024**, *57*, 19, 9121-9134. (Q1, 15/94, POLYMER SCIENCE; SCI, IF: 5.2)
22. Y.-T. Chern,* Y.-Q. Lin, J.-R. Han, [Y.-C. Chiu](#),* "Achieving Ultrahigh Electrochromic Stability of Triarylamine-Based Polymers by the Design of Five Electroactive Nitrogen Centers" *Mater. Today Chem.*, **2024**, *40*, 102236. (Q1, 110/460, MATERIALS SCIENCE, MULTIDISCIPLINARY; SCI, IF: 6.7)
23. S. F. Solari, A. Wiecek, T. Marcato, M. Wörle, F. Krumeich, Y.-T. Li, [Y.-C. Chiu](#), S. Siol,* S. B. Shivarudraiah,* C.-J. Shih,* "Stabilization of Quantum-Confined Anisotropic CsPbI₃ Nanoplatelets by Solid-Phase Metal Iodide Crude Reaction for Color-Pure Red Emission" *Adv. Opt. Mater.*, **2024**, *12*, 26, 2401048. (Q1, 99/460, MATERIALS SCIENCE, MULTIDISCIPLINARY; SCI, IF: 7.2)
24. O. N. Sari, Y. Rahmawati, F. Taufany, [Y.-C. Chiu](#), S. Nurkhamidah,* "The Effects of NaClO₂ and H₂O₂ as Bleaching Agents in the Synthesis of Cellulose Acetate from Oil Palm Empty Fruit Bunch" *ASEAN Eng. J.*, **2024**, *143*, 137-142.
25. L. Laysandra,[†] R. A. Rusli,[†] Y.-W. Chen, S.-J. Chen, Y.-W. Yeh, T.-L. Tsai*, J.-H. Huang, K.-S. Chuang, A. Njotoprajitno, [Y.-C. Chiu](#),* "Elastic and Self-Healing Copolymer Coatings with Antimicrobial Function", *ACS Appl. Mater. Interfaces*, **2024**, *16*, 19, 25194-25209. (Q1, 83/460, MATERIALS SCIENCE, MULTIDISCIPLINARY; SCI, IF: 8.2)
26. L. L. Santoso, S. P. Prakoso, H.-K. Bui, Q.-A. Hong, S.-Y. Huang, T.-C. Chiang, K.-Y. Huang,* S. Nurkhamidah,* D. Tristantini,* [Y.-C. Chiu](#),* "A Green High-k Dielectric from Modified Carboxymethyl Cellulose-Based with Dextrin" *Macromol. Rapid Commun.* **2024**, 2400059. (Q2, 30/94, POLYMER SCIENCE; SCI, IF: 4.3)
27. L. A. Ningsih, P.-Y. Lu, S. Ashimura, M. Yoshida, W.-C. Chen, [Y.-C. Chiu](#), C. Hu,* "Highly effective photocatalytic degradation of plastic film (LDPE) using Ruthenium-incorporated g-C₃N₄ via the Norrish mechanism" *Chem. Eng. J.* **2024**, *480*, 148089. (Q1, 8/175, ENGINEERING, CHEMICAL; SCI, IF:13.2)
28. J.-H. Yeh,[†] S. P. Prakoso,[†] L. L. Santoso,[†] S.-J. Chen, B. Chiang, J.-C. Cheng, R.-N. Zhang, [Y.-C. Chiu](#),* "A Sustainable Biomass-Based Electret for Face Mask and Non-Volatile Transistor Memory", *Org. Electron.* **2024**, *124*, 106944. (Q3, 275/460, MATERIALS SCIENCE, MULTIDISCIPLINARY; SCI, IF: 2.6)
29. Y.-T. Chern,* Z.-Y. Zhang, J.-J. Wang, P.-L. Lin, [Y.-C. Chiu](#), Y.-J. Wang, C.-H. Lin, G.-S. Liou,* "Concept of triphenylamine side chains with four electroactive nitrogen centers toward record-high stable electrochromic polyamides" , *J. Mater. Chem. C*, **2024**, *12*, 8804-8812. (Q1, 45/187, PHYSICS, APPLIED; SCI, IF: 5.1)
30. Y.-T. Li, S. P. Prakoso, L.-C. Hsu, X.-N. Xu, C.-C. Hung, Y.-L. Chen, Y.-H. Wu, W.-C. Chen, B.-H. Lin,* [Y.-C. Chiu](#),* "Controlled Growth of Highly Oriented Perovskite Crystals in Polymer Solutions via Selective Solvent Vapor Diffusion", *Macromol. Rapid Commun.*, **2023**, *44*, 2300382. (Q2, 30/94, POLYMER SCIENCE; SCI, IF: 4.3)
31. Y.-F. Wang,[†] Z. Song, F.[†] Guillaume, Z.-F. Li, K.-L. Chen, C.-T. Liu, Z.-Q. Cao, [Y.-C. Chiu](#), W. Xia, X. Gu*, "Highly deformable rigid glassy conjugated polymeric thin films" *Adv. Funct. Mater.*, **2023**, *33*, 2306576. (Q1, 23/460, MATERIALS SCIENCE, MULTIDISCIPLINARY ; SCI, IF: 19.0)
32. Y. Wang, K.-L. Chen, A. Awada, N. Prine, Z. Cao, C. Zhu, [Y.-C. Chiu](#),* S. Rondeau-Gagné,* X. Gu,* "Leveraging Non-Covalent Interactions to Control the Morphology and Electrical and Mechanical

- Properties of Stretchable Semiconducting Composites”, *Chem. Mat.*, **2023**, *35*, 9713–9724. (Q1, 102/460, MATERIALS SCIENCE, MULTIDISCIPLINARY; SCI, IF: 7.0)
33. M.-N. Chen,[†] C.-Y. Ke,[†] A. Nyayachavadi, H. Zhao, M. U. Ocheje, M. Mooney, Y.-T. Li, X. Gu,* G.-S.* Liou,* S. Rondeau-Gagné,* [Y.-C. Chiu,*](#) “Facile Blending Strategy for Boosting the Conjugated Polymer Semiconductor Transistor’s Mobility”, *ACS Appl. Mater. Interfaces*, **2023**, *15*, 53755–53764. (Q1, 83/460, MATERIALS SCIENCE, MULTIDISCIPLINARY; SCI, IF: 8.2)
 34. C.-C. Hsu,[†] L. Laysandra,[†] [Y.-C. Chiu,*](#) W.-R. Liu,* “Pivotal Role of Boron-Doped Graphene Quantum Dots in Stretchable and Self-Healable Red Emission Nanocomposite Film: One Step Advance for White Light Emitting Diodes Application”, *Chem. Eng. J.* **2023**, *473*, 145469. (Q1, 8/175, ENGINEERING, CHEMICAL; SCI, IF:13.2)
 35. Y.-W. Hong,[†] L. Laysandra,[†] [Y.-C. Chiu,*](#) D.-Y. Kang*, “Vacuum-Assisted Self-Healing Amphiphilic Copolymer Membranes for Gas Separation”, *ACS Appl. Mater. Interfaces*, **2023**, *15*, 34075–34086. (Q1, 83/460, MATERIALS SCIENCE, MULTIDISCIPLINARY; SCI, IF: 8.2)
 36. Y. Wang,[†] K.-L. Chen,[†] N. Prine, S. Rondeau-Gagné, [Y.-C. Chiu,*](#) X. Gu*, “Stretchable and Self-Healable Semiconductive Composites Based on Hydrogen Bonding Cross-linked Elastomeric Matrix.” *Adv. Funct. Mater.*, **2023**, 2303031. (Q1, 23/460, MATERIALS SCIENCE, MULTIDISCIPLINARY ; SCI, IF: 19.0)
 37. J.-H. Wang, C.-H. Chung, P.-W. Chi, T. Paul, P. Chandan, K.-W. Yeh, C.-C. Chang*, S. P. Prakoso, [Y.-C. Chiu](#), M.-K. Wu*, “Si@C Core-Shell Nanostructure-Based Anode for Li-Ion Transport”, *ACS Appl. Nano Mater.*, **2023**. (Q2, 135/460, MATERIALS SCIENCE, MULTIDISCIPLINARY; SCI, IF: 5.5)
 38. G. S. Tesfaye, Y.-T. Li, Y.-H. Wu, T.-S. Wu, C.-Y. Lee, B.-Y. Chen, G.-C. Yin, M.-T. Tang, [Y.-C. Chiu,*](#) B.-H. Lin*, “Probing Free And Bound Excitons in Eu-Doped CsPbBr₃ by Temperature-Dependent Photoluminescence and Time-Resolved Photoluminescence”, *Opt. Mater.*, **2023**, *138*, 113749. (Q1, 29/125, OPTICS; SCI, IF: 4.2)
 39. S. P. Prakoso, Y.-T. Li, J.-Y. Lai, [Y.-C. Chiu,*](#) “Concept of Photoactive Invisible Inks toward Ultralow-Cost Fabrication of Transistor Photomemories”, *Adv. Electron. Mater.*, **2023**, *9*, 2201147. (Q1, 43/187, PHYSICS, APPLIED; SCI, IF: 5.3)
 40. L. Laysandra,[†] G. Getachew,[†] J.-R. Chang, J.-Y. Chang*, [Y.-C. Chiu,*](#) ““Grafting from” Enabled Stretchable and Highly Fluorescent Carbon Quantum Dot-Polyisoprene Elastomers, *ACS Appl. Polym. Mater.*, **2023**, *5*, 1725–1736. (Q1, 23/94, POLYMER SCIENCE; SCI, IF: 4.7)
 41. C.-H. Ho,[†] Y.-S. Lin,[†] C.-C. Hung, [Y.-C. Chiu](#), C.-C. Kuo*, Y.-C. Lin*, W.-C. Chen*, “Discotic Liquid Crystals with Highly Ordered Columnar Hexagonal Structure for Ultraviolet Light- Sensitive Phototransistor Memory”, *ACS Appl. Electron. Mater.*, **2023**, *5*, 1067–1076. (Q2, 93/366, ENGINEERING, ELECTRICAL & ELECTRONIC; SCI, IF: 4.7)
 42. M. Mooney,[†] A. Nyayachavadi,[†] A. Awada, E. Iakovidis, Y. Wang, M.-N. Chen, Y. Liu, J. Xu, [Y.-C. Chiu](#), X. Gu, S. Rondeau-Gagné*, “Asymmetric Side-Chain Engineering in Semiconducting Polymers: A Platform for Greener Processing and Post-Functionalization of Organic”, *Polym. Chem.*, **2023**, *14*, 562–572. (Q2, 34/94, POLYMER SCIENCE; SCI, IF: 3.9)
 43. Y.-C. Chiang,[†] W.-C. Yang,[†] C.-C. Hung,[†] E. Ercan, [Y.-C. Chiu](#), Y.-C. Lin*, W.-C. Chen*, “Fully Photoswitchable Phototransistor Memory Comprising Perovskite Quantum Dot-Based Hybrid Nanocomposites as a Photoresponsive Floating Gate”, *ACS Appl. Mater. Interfaces*, **2023**, *15*, 1675–1684. (Q1, 83/460, MATERIALS SCIENCE, MULTIDISCIPLINARY; SCI, IF: 8.2)

44. M. Mburu, A. N. Au-Duong, W. T. Li, W. Y. Yu, Y. W. Lan, W. H. Chiang*, [Y. C. Chiu*](#) "Highly Stable Single-Walled Carbon Nanotube Sorting by Low Molecular Weight Conjugated Polymer with Hydrogen-Bonded Polyisoprene", *Adv. Electron. Mater.*, **2022**, *8*, 2200698. (Q1, 43/187, PHYSICS, APPLIED; SCI, IF: 5.3)
45. Y.-C. Hsu, Y.-H. You, A.-N. Au-Duong, Y.-S. Huang, [Y.-C. Chiu*](#), L.-Y. Chen*, "Fabrication of Intrinsic, Elastic, Self-healing, and Luminescent CsPbBr₃ Quantum Dot-Polymer Composites via Thiol-Ene Cross-Linking", *ACS Appl. Polym. Mater.*, **2022**, *4*, 8987-8995. (Q2, 150/460, MATERIALS SCIENCE, MULTIDISCIPLINARY; SCI, IF: 4.7)
46. D. K. Tran, A. Robitaille, I. J. Hai, C.-C. Lin, D. Kuzuhara, T. Koganezawa, [Y.-C. Chiu](#), M. Leclerc, S. A. Jenekhe*, "Unified Understanding of Molecular Weight Dependence of Electron Transport in Naphthalene Diimide-Based n-Type Semiconducting Polymers", *Chem. Mat.*, **2022**, *34*, 9644-9655. (Q1, 102/460, MATERIALS SCIENCE, MULTIDISCIPLINARY; SCI, IF: 7.0)

以下為助理教授階段與之前 (prior to 2022.07)

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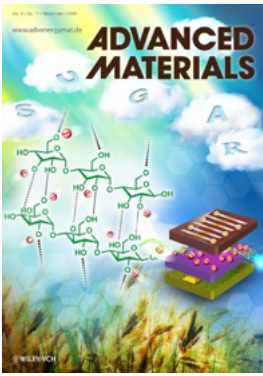
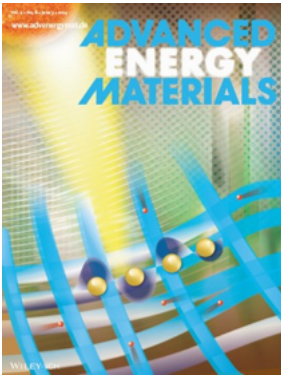
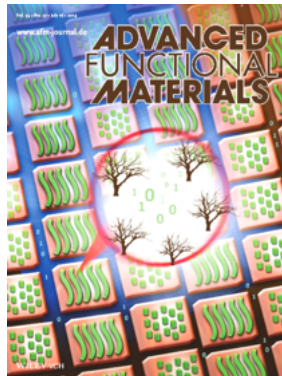
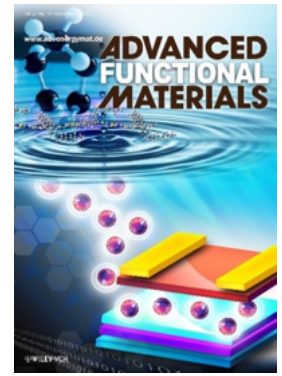
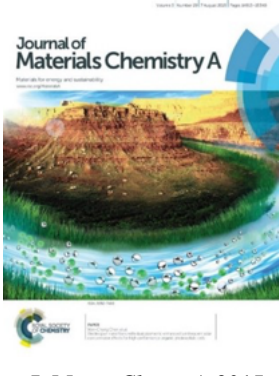
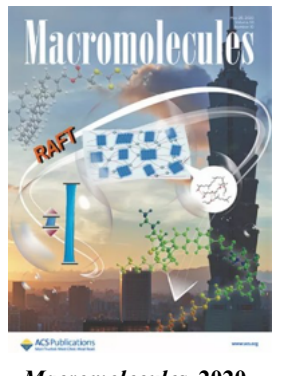
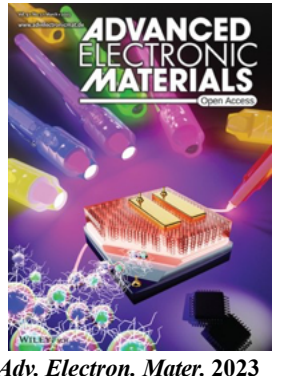
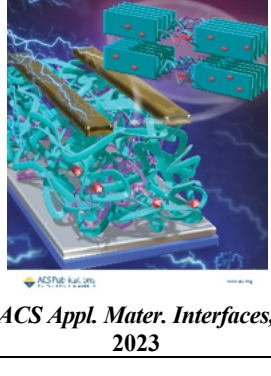
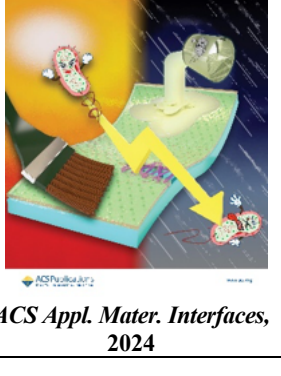
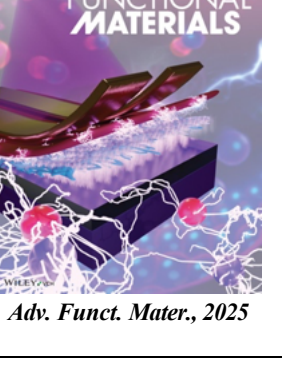
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