

**Dr. Changhong LINGHU****Presidential Assistant Professor**

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BIOGRAPHY

Dr. Changhong LINGHU is a Presidential Assistant Professor in the Department of Mechanical Engineering at City University of Hong Kong, China. He was a Postdoctoral Research Fellow at Nanyang Technological University (NTU), Singapore, working with Prof. Huajian Gao and Prof. K. Jimmy Hsia from June 2023 to September 2025. He received his Ph.D. in Mechanical and Aerospace Engineering from NTU in 2023, and his M.S. and B.E. in Mechanics from Zhejiang University in 2020 and 2017, respectively.

He works at the interdisciplinary frontiers of mechanics, materials, robotics, and engineering, focusing on Smart Interfacial Science and Engineering (contact, adhesion, friction, etc.). The research of his lab (ISEE LAB) spans from fundamental theories (e.g., solid mechanics, fracture mechanics, contact mechanics, interfacial physics) to advanced applications (e.g., additive manufacturing, collaborative or climbing robots, aerial perching and grasping, flexible/wearable devices, biomedical devices, and mechanical metamaterials). The lab is also expanding into data-driven mechanosystems by exploring generalized interfaces: interactive boundaries that connect physical, biological, and socioeconomic systems.

He has led multiple research teams of more than 80 undergraduate and postgraduate students in total in the past ten years to conduct research in mechanics and applications of smart adhesives. So far, he has published more than 45 peer-reviewed papers (with **1885** citations, H-index =20), including **5 ESI highly cited papers (Top 1%)** in peer-reviewed journals such as *Sci. Adv.*, *Nat. Commun.*, *PNAS*, *Matter*, *JMPS*, *Nat. Sci. Rev.*, *EML*, *IJSS*. He has been awarded multiple academic awards such as the Young Scientist Award in Smart Materials and Structures at the 2nd Chinese Conference on Smart Materials and Structural Systems (SMSS 2025), Outstanding early-career board member award of International Journal of Smart and Nano Materials (2025), *NTU Graduate College Research Excellence Award in the Academic Year 2023*, the “*Young Postgraduate Scholar of Distinction in Metamaterials*” in the 2nd China Metamaterials Conference. *He serves as the Associate Editor of the Journal of Polymer Materials, the guest editor and early career board (ECB) member of Int. J. Smart Nano. Mater., and ECB member of The Innovation Materials, SmartBot, Exploration, Additive Manufacturing, Micro-Nano Letters, and reviewers for 20 international journals, including Sci. Adv., Natl. Sci. Rev., Adv. Funct. Mater, Adv. Intell. Syst., JMPS, EML, the Innovation, Research, etc.*

Moreover, he has impact by implementing his research findings. He has filed **20 patents** with over ten of them being successfully commercialized. His accomplishments has been recognized by approximately 50 innovation and entrepreneurship awards, including the Revolutionary Top 50 Finalists (RVLT50) of the 11th Lee Kuan Yew Global Business Plan Competition (2023), the First Prize Winner of Maybank ASEAN Startup Award (2023), the First Prize in the NTU Kumar Sustainability & Innovation Prize (2023), the First Prize in the 4th ‘Gold Panda’ Global Innovation & Entrepreneurship Competition (2022), the Gold Medal in the 7th China International ‘Internet+’ Innovation & Entrepreneurship Competition (2021), the Gold medal in the 12th ‘Challenge Cup’ Chinese University Entrepreneurship Competition (2020). One of his achievements is the successful translation of his research on Mass Transfer of MicroLED into industrial application, which enhance the efficiency of MicroLED chip assembly by 100 folds and is expected to revolutionize the MicroLED display industry. Currently, he is also serving as the Chief Technology Consultant.

To date, he has mentored/co-supervised 20 postgraduates and 60 undergraduates, with 56 of them pursuing postgraduate studies at prestigious universities such as Stanford University, Massachusetts Institute of Technology, Yale University, Cambridge University, Oxford University, and so on.

Curriculum Vitae

Changhong LINGHU

☆ Gender: Male ☆ Nationality: Chinese
☆ Date of Birth: March 02, 1994 ☆ Major: Solid Mechanics
☆ Affiliation: School of Mechanical & Aerospace Engineering, Nanyang Technological University
☆ Address: 50 Nanyang Avenue, Singapore 639798
☆ Contact: Tel - 18868118950; E-mail- ling0090@e.ntu.edu.sg; chlinghu@outlook.com
☆ **Researcher ID:** I-5315-2018; **ORCID ID:** 0000-0002-1659-8073
☆ ResearchGate Homepage: https://www.researchgate.net/profile/Changhong_Linghu



EDUCATION

Nanyang Technological University (08/2020 – 06/2023)	Ph.D. in Mechanical & Aerospace Engineering	09/2023
- Supervisors - Prof. K Jimmy Hsia (NTU) and Prof. Huajian Gao (NTU)		
Zhejiang University (09/2017 – 03/2020)	M.S. in Solid Mechanics	03/2020
- Supervisor - Prof. Jizhou Song (ZJU)		
Zhejiang University (09/2013 – 06/2017)	B.E. in Engineering Mechanics	06/2017
- Supervisor - Prof. Gaofeng Wang (ZJU)		

MINORS AND COURSES

MIT Professional Education-Short Programs, Machine Learning for Materials Informatics (07-08, 2024)		08/2024
Impact Leadership Mentoring Program of NTU Graduate School (02/2023 - 03/2023)	Merit Graduate	03/2023
MSc TIP Courses of NTU Entrepreneurship Academy (NTUpreneur) 08/2022 - 10/2022	Student	10/2022
Hejun Business School (05/2020 – 05/2021)	Merit Graduate	05/2021

AWARDS AND HONORS

1. Outstanding early-career board member award of International Journal of Smart and Nano Materials	11/2025
2. Young Scientist Award in Smart Materials and Structures at the 2 nd Chinese Conference on Smart Materials and Structural System	11/2025
3. Revolutionary Top 50 Finalists (RVLT50) of the 11 th Lee Kuan Yew Global Business Plan Competition	09/2023
4. The Graduate College Research Excellence Award (only 3 at NTU)	06/2023
5. “Young Postgraduate Scholar of Distinction in Metamaterials” in the 2 nd China Metamaterials Conference	05/2023
6. Sole First Prize Winner in the NTU Kumar Sustainability & Innovation Prize 2023	05/2023
7. First Prize in the 4 th ‘Gold Panda’ Global Innovation and Entrepreneurship Competition of Flexible Electronics (1 out of 228 teams)	12/2022
8. Outstanding master’s thesis of Zhejiang Province, China	12/2021
9. Best Winner Prize of the ‘Chunhui Cup’ Innovation and Entrepreneurship Competition	12/2021
10. Gold medal in the 7 th China International College Students ‘Internet+’ Innovation and Entrepreneurship Competition (130 out of 2.28 million teams)	12/2021
11. Grand Prize in the ‘Internet+’ Innovation and Entrepreneurship Competition at Zhejiang Province (1 out of 7608 teams)	11/2021
12. Gold medal in the 12 th ‘Challenge Cup’ Chinese University Student Entrepreneurship Competition (144 out of 1.79 million teams)	12/2020
13. Outstanding Postgraduates Awards of Zhejiang Province/ Zhejiang University (<3% in Zhejiang Province)	05/2020
14. ‘Qizhen Cup’ – Students’ TOP Ten New Academic Advances of Zhejiang University (twice, very selected 10 in Zhejiang University) 2019,2020	
15. Best Paper Awards of the Journal of Experiments in Fluid Mechanics (only one from Zhejiang University)	06/2019
16. Excellent Poster Award of the 1 st CN National Congress of Soft Matter Mechanics (only one from Zhejiang University in China)	11/2018
17. China National Scholarship (Three times, < 0.2% in China)	11/2019,11/2018, 11/2016
18. Tang Lixin Scholarship (Four times, < 1% in Zhejiang University)	2016 - 2020
19. Outstanding Graduates Awards of Zhejiang Province (<3% in Zhejiang Province)	05/2017
20. Graduate of Merit/Triple A Graduate (<15% in Zhejiang University)	12/2018,2019

WORK AND RESEARCH EXPERIENCE

- 09/2025 — Present** **City University of Hong Kong (CityUHK)**, Presidential Assistant Professor
Principal Investigator, “ISEE Lab (Interfacial Science and Engineering)”, CityUHK
Director, Research Center for Wise Sports and Athletics, CityUHK Shenzhen Research Institute
Member, Centre for Robotics and Automation, City University of Hong Kong (CityUHK)
- Research Interests:** Intelligent Manufacturing, Soft/Hard Robotic Grippers, Smart Sports and Athletics, Robotics and Human-Machine Interactions, Wearable and Biomedical Technologies, Embodied Intelligence and Intelligent Matter, Smart Interfacial Science and Engineering, Solid/Soft Matter/Fracture Mechanics.
- 06/2023 — 09/2025** **Nanyang Technological University**, Postdoctoral Research Fellow
- 08/2020 — 08/2023** **Nanyang Technological University**, *Postgraduate Research Associate* (Ph.D. Candidate).
Co-supervised by Prof. K Jimmy Hsia and Prof. Huajian Gao
- Research Interests: Mechanics and Applications of Adaptable Interfacial Adhesion, Smart Soft Materials and Soft Robotics, Flexible and Wearable Electronics, Contact, Adhesion and Fracture Mechanics, Mechanics of Materials.
 - Research Achievements:
 - ✓ **Led** one research team to design and construct an adhesion test platform and proposed a new adaptable interfacial adhesion design paradigm based on JKR-DMT fracture transition; Published 10 papers, filed 2 patents.
 - ✓ **Led** teams to commercialize research results and won gold medals in multiple entrepreneurship competitions.
 - Students Training: Mentored 28 undergraduate students on their Final Year Projects; and 20 postgraduates.
- 08/2022 — 10/2022** **Nanyang Technological University**, Teaching Assistant for Balancing of rotating masses
- 05/2020 — 08/2020** **Soft Matter Research Center, Flexible Electronics Science and Technology Alliance of Zhejiang University, and key Laboratory of Soft Machines and Smart Devices of Zhejiang Province.** *Staff Research Associate.*
- Research Interests: Adaptive Interfacial Adhesion, Fracture Mechanics, Mechanics of Materials, Soft Materials, Soft Grippers and Soft Robotics, Transfer Printing Techniques, Mass Transfer of Micro-LED, 3D Printing.
 - Research Achievements: Published one book chapter in mass transfer of micro-LEDs
- 07/2017 — 03/2020** **Soft Matter Research Center, Flexible Electronics Science and Technology Alliance of Zhejiang University, and key Laboratory of Soft Machines and Smart Devices of Zhejiang Province.** *Graduate Research Associate*
- Research Interests: Adaptive Interfacial Adhesion, Flexible and Stretchable Electronics, Massive Transfer Printing; Soft Materials, Soft Gripper, and Soft Robotics; Neural Interfaces, Functionally Gradient Materials.
 - Participated Grants: a horizontal project (K18-525116-008, \$15,000, 3rd), a National Basic Research Program of China (2015CB351901, \$400,000, 7th); a National Natural Science Foundation of China (11872331, \$110,000).
 - Research Achievements:
 - ✓ Led one research team in designing and constructing a transfer printing platform and filed 16 patents.
 - ✓ Published 14 SCI Papers (including one in *Nature Communications*, two in *Science Advances*, one in *npj Flexible Electronics*, one **Cover in Soft Matter**, one in *Extreme Mechanics Letters*).
 - Students Training: 32 undergraduates in total.
- 07/2015 – 03/2017** **Laboratory of Advanced Power and Thermal Fluid of Zhejiang University.** *Research Assistant*
- Research Interests: Thermoacoustic instability; Diagnostics of the thermal flow field.
 - Research Achievements: Filed 2 patents, published 3 papers, and trained 3 undergraduates.
- 05/2017 – 06/2017** **Teaching Assistant for the American Iowa State University China Study Abroad Program.**

PROJECTS AND FUNDINGS

- [1] 2026.02 – 2029.02, “*Smart Sports and Athletics Research* (R-IND31001), *General Industrial Project*, Shenzhen Roubo New Materials Co., Ltd., **Principal Investigator**.
- [2] 2025.11 – 2028.11: “*Adhesive Metamaterials for Advanced Manufacturing and Engineering Technologies*” (9382018), *Presidential Assistant Professors Scheme*, City University of Hong Kong, **Principal Investigator**.
- [3] 2023.06 – 2024.06: “*Kumar Sustainability & Innovation Project: Artificial Carbon-Negative Aggregates towards Future Construction*” (G2001924H), Transformational Project, the College of Engineering, Nanyang Technological University, Singapore. **Principal Investigator**.
- [4] 2023.01 - Present: “*Smart Adhesive Systems through Harnessing Fracture Regimes*” (MOE-T2EP50122-0001), *MOE Tier 2 Key Project*, Singapore Ministry of Education, **Deputy Member**.
- [5] 2019.01 - 2022.12: “*Bio-inspired high-efficiency transfer printing based on active control of interface adhesion*” (11872331), General Project, National Natural Science Foundation of China, **Core Participant**.
- [6] 2017.01 - 2019.08: “*Theories and systems construction for stretchable & flexible inorganic electronics*” (2015CB351901), Sub-project of the National Key Basic Research Program of China (973 Program), Ministry of Science and Technology of the People’s Republic of China, **Participant**.
- [7] 2017.04 - 2018.12: “*Preparation and Testing of Intelligent Soft Materials*” (K18-525116-008), General Horizontal Project, Yisheng Scientific Instruments (Jiaxing) Co., Ltd., **Participant**.

PUBLICATION LIST (# co-first; * corresponding)

- [1] **LINGHU C.**, ... Gao H. * and Hsia K. J.*, *Fibrillar adhesives with unprecedented adhesion strength, switchability and scalability*. *National Science Review*, 2024: nwae106. (**Ranking: A+**, 5% in Multidisciplinary Sciences; **IF** = 15.9992, **Citation** = 14) (Highlighted by [NTU](#), [EurekAlert](#), [Lianhe Zaobao](#), [the Straits Times](#), [Adhesives & Sealants Industry \(ASI\) Magazine](#), [Mirage News](#), [Science Daily](#), [the Independent Singapore](#), [Technology Networks](#), [the Engineer](#), and so on.)
- [2] **LINGHU C.**, ... Gao, H.*, & Hsia, K. J*, *Versatile adhesive skin enhances robotic interactions with the environment*, *Science Advances*, 2025, 11(3): eadt4765. (**Ranking: A+**, 5% in Multidisciplinary Sciences; **IF** = 11.6000; and **ESI Highly Cited (1%)**)
- [3] **LINGHU C.**, Wu R.#...Wang G. *, Gao, H.*, & Hsia, K. J*, *Long-term adhesion durability revealed through a rheological paradigm*, *Science Advances*, 2025, 11: eadt3957. (**Ranking: A+**, 5% in Multidisciplinary Sci.; **IF** = 11.6)
- [4] **LINGHU C.**, ... Gao H.*, Hsia, K. J.*, *Overcoming the adhesion paradox and switchability conflict on rough surfaces with shape memory polymers*, *Proceedings of the National Academy of Sciences*, 2023. 120(13): p. e2221049120. (**Ranking: A+**, 10% in Multidisciplinary Sciences; **IF** = 9.2003, **Citation** = 55)
- [5] **LINGHU C.**, Zhang S.#, ... Song J*. *Universal SMP gripper with massive and selective capabilities for multi-scaled, arbitrarily shaped objects*. *Science Advances*, 2020, 6: eaay5120. (**Ranking: A+**, 5% in Multidisciplinary Sciences; **IF** = 11.6000, **Citation** = 131)
- [6] Wu, J. #, Guo, J. #, **LINGHU C.**, Lu, Y., Song, J. *, Xie, T.* and Zhao, Q. *, 2021. *Rapid digital light 3D printing enabled by a soft and deformable hydrogel separation interface*. *Nature Communications*, 12(1), pp.1-9. (**Ranking: A+**, 5% in Multidisciplinary Sciences; **co-first author**; **IF** = 14.2006, **Citation** = 74)
- [7] **LINGHU C.**, ... Gao, H.*, & Hsia, K. J*. *Mechanics of shape-locking-governed R2G adhesion with shape memory polymers*. *Journal of the Mechanics and Physics of Solids*, 2023, 170, 105091. (**Ranking: A+**, 5% in Mechanics; **IF** = 5.582, **Citation** = 31, **Highlighted by MIT Technology Review**: <https://www.mitrchina.com/news/detail/11549>)
- [8] **LINGHU C.**, Zhang S., Wang C., and Song J*. *Transfer printing techniques for flexible and stretchable inorganic electronics*. *npj Flexible Electronics*, 2018 2 (1). (**Ranking: A+**, 10% in Materials; **IF** = 12.1005, **Citation** = 279)
- [9] **LINGHU C.**, Du Z.# ... Hsia K. J. *, *On shear adhesion of adhesive fibrils*. *Extreme Mechanics Letters*, 2023, 64: 102092. (**Ranking: A**, 15% in Mechanics; **IF** = 4.0998, **Citation** = 10)
- [10] **LINGHU C.**, ... Song J*. *Rapidly tunable and highly reversible dry adhesion for transfer printing in air and vacuum*. *Soft Matter*, 2019, 15:30-37. (**Ranking: A**, 20% in Physics; **Cover** and **ESI Highly Cited (1%)**; **IF** = 2.6; **Citation** = 124)
- [11] **LINGHU C.**, ... Song J*. *Mechanics of magnet-controlled transfer printing*. *Extreme Mechanics Letters*, 2019, 27:76-82. (**Ranking: A**, 15% in Mechanics; **IF** = 4.0998, **Citation** = 23)
- [12] **LINGHU C.**, ... Leng J., & Gao, H.*, *Advancing Smart dry adhesives with shape memory polymers*, *International Journal of Smart and Nano Materials* (2024): 1-41. (**Ranking: B+**, 40% in Materials; **IF** = 4.3997)
- [13] **LINGHU C.**, ... Gao H*, Hsia K. J.*, *Rubber-to-glass adhesion between a rigid sphere and a shape memory polymer substrate of finite thickness*, *International Journal of Solids and Structures*, 2025: 113431. (*Ranking: A*, 15% in Mechanics; *IF* = 3.1)
- [14] Deng, J., **LINGHU C.**, Zhang, S., Ng, Z., Low, D., Gao, H., Hsia K. J., & Lu, H*. *Peeling adhesion regime transition of elastic tapes*. *Extreme Mechanics Letters*, 2025, 102414.
- [15] Mao W., **LINGHU C.** *, Ju X., Hsia, K. J, Yang F.*, *A physically based constitutive model captures the Mullins effect due to different damage mechanisms*, *Acta Mechanica* (2025): 1-16. (*Ranking: B+*, 40% in Mechanics; *IF* = 2.3)
- [16] Mu T., Li R., **LINGHU C.** *, Liu J., Leng J. *, Gao H., Hsia K. J*. *Nonlinear contact mechanics of soft elastic spheres under extreme compression*. *Journal of the Mechanics and Physics of Solids*, 2025, 203, 106229.
- [17] Xu R.#, **LINGHU C.** #*, Mao W.#, Zhang H., Jiang H., He Y., Liu Y., Li Y., Gao H., Chen Y., Lu M. *, Li X. *, Hsia K. J. *. *Shape-Adaptive Mechanical Metastructure Enables Robust Adhesion and Dynamic Capturing of 3D Objects*. *Advanced Functional Materials*, 2026, 36(6), e14499. (**Ranking: A+**, 5% in Materials; **IF** = 17.4002)
- [18] Gao, X. *, Yan, C., Wang, Y., Wang, W., Chang, C., Zhang, H., Wang Y., Cao J., Duan X., Yu S., **LINGHU C.** *, Park J. *, Wu J. *. *Multi-functional zwitterionic glycylphosphorylcholine hydrogel for human motion detection and human-machine interaction*. *Journal of Colloid and Interface Science*, 2025, 139588.

- [19] Jiang, J., Huang, C., **LINGHU C.***, Chen, C., Li, C., Shi, C., & Song, J.* (2026). Liquid-driven transfer printing techniques for heterogeneous integration. *Matter*, 9(1).
- [20] Zhao, Z., Yang, R.*, Chen, B., Wang, C., Zhang, S., **LINGHU C.***, Wang P., Luan S.*, Gao H., Hsia K. J.* Mechanically active polymeric adhesives (MAPAs) for tissue regeneration. *Progress in Materials Science*, 2026, 101658.
- [21] Fu, R., Xiao, C., Du, Z., **LINGHU, C.***, Shi, Y., Xiang, C., Wan M., Tan G., Lu L., Ning C*, Hsia, K. J*. Switchable Supramolecular Adhesive by Tuning Interfacial Bonding and Modulus. *Advanced Functional Materials*, 2026, e23966.
- [22] Mu, T., **LINGHU, C.***, Liu, Y., Leng, J., Gao, H.*, & Hsia, K. J*. Universal scaling laws and a geometric mapping framework for deep indentation of soft materials. *Journal of the Mechanics and Physics of Solids*, 2026, 106572.
- [23] Li R., Mu T., **LINGHU C.***, Zhang W.*, Hsia K. J.*, Capturing flying objects through viscoelastic adhesion. *Journal of the Mechanics and Physics of Solids*, 2026: 106574.
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- [24] Li, L., Gao, W., Qin, B., Zhang, Y., **LINGHU, C.**, Wang, B., Ma Y., Kong S., Yu, J*. Lamprey-Inspired Amphibious Suction Disc with Hybrid Adhesion Mechanism. *Cyborg and Bionic Systems*, 2026, 7, 0527.
- [25] Zhang, S., **LINGHU, C.**, Li, G., Chen, Q., Zhang, J., & Zhang, J. Stage-Adaptable Silk-Based Nanofiber Film for Postoperative Uterine in Situ Repair and Fertility Preservation. *Advanced Healthcare Materials*, 2026, e02549.
- [26] Zhang, S., **LINGHU C.**, Chen, Y., Huang, Y., Song, Y., He, T., & Zhang, J*. (2025). Structure-guided and sustainable engineering silk sericin powder with improved storability, redissolution, and biocompatibility. *Journal of Cleaner Production*, 535, 147132.
- [27] Du, J., Guo, S., Feng, H., **LINGHU C.**, Li, W., Wang, P., & Li, Y. (2025). Hyper-Range Amorphization Unlocks Superior Damage Tolerance in Alloys. *Nature Communications*, 16(1), 10390.
- [28] Wang C., **LINGHU C.**, ... Song J.*. Programmable and scalable transfer printing with high reliability and efficiency for flexible inorganic electronics. *Science Advances*, 2020, 6(25): eabb2393. (Ranking: **A+**, 5% in Multidisciplinary Sciences; **IF** = 11.6000, **Citation** = 123)
- [29] Luo H., Wang C. J., **LINGHU C.**, Yu K., Wang C., and Song J*. Laser-driven programmable non-contact transfer printing of objects onto arbitrary receivers via an active elastomeric micro-structured stamp. *National Science Review*, 7.2 (2020): 296-304. (Ranking: **A+**, 5% in Multidisciplinary; **ESI Highly Cited (1%)**, **IF** = 15.9992, **Citation** = 107)
- [30] Zhou C., **LINGHU C.**, ... Song J*. Fast digital patterning of surface topography toward three-dimensional shape changing structures. *ACS Applied Materials & Interfaces* 2019, 11, 51, 48412-48418. (Ranking: **A+**, 10% in Materials; **IF** = 7.8996, **Citation** = 16)
- [31] Zhang, X., **LINGHU C.**, Luo, H., & Song, J*. Mechanics of active elastomeric surfaces with tunable adhesion for non-contact pick-up and printing. *International Journal of Solids and Structures* 219 (2021): 166-176. (Ranking: **A**, 15% in Mechanics; **IF** = 3.1000, **Citation** = 2)
- [32] Zhang X., **LINGHU C.**, and Song J*. Three-dimensional mechanical modeling of magnet-controlled transfer printing. *International Journal of Applied Mechanics*, 2019 11(5):1950042. (Ranking: **B+**, 30% in Mechanics; **IF** = 2.3)
- [33] Xia Y., **LINGHU C.**, ... Wang G*. Experimental investigation of the flame front propagation characteristic during light-round ignition in an annular combustor. *Flow, Turbulence and Combustion*, 2019,103(1):247-269. (Ranking: **B+**, 35% in Mechanics; **IF** = 1.7998, **Citation** = 37)
- [34] Zhang, Y., Ren, H., **Linghu, C.**, Zhang, J., Gao, A., Su, H., ... & Yang, P. Stabilizing metal coating on flexible devices by ultrathin protein nanofilms. *Advanced Materials*, 2024, 2412378. (Ranking: **A+**, 5% in Materials; **IF** = 25.9002)
- [35] Wang, S., Luo, H., **LINGHU C.**, Song, J.*, Elastic energy storage enabled magnetically actuated, octopus - inspired smart adhesive. *Advanced Functional Materials*, 2020, 2009217. (Ranking: **A+**, 5% in Materials; **IF** = 17.4002, **Citation** = 102)
- [36] Luo, H., Wang, S., Wang, C., **LINGHU C.**, & Song, J*. Thermal controlled tunable adhesive for deterministic assembly by transfer printing. *Advanced Functional Materials*, 2021, 2010297. (Ranking: **A+**, 5% in Materials; **ESI Highly Cited (1%)**, **IF** = 17.4002, **Citation** = 38)
- [37] Yang, X., Wang, Z., Zhang, B., Chen, T., **Linghu, C.**, ... & Wang, Y. Self-sensing robotic structures from architected particle assemblies. *Advanced Intelligent Systems*, 2023, 5(1), 2200250. (Ranking: **A+**, 10% in Engineering; **IF** = 6.2001, **Citation** = 24)

- [38] Sim, K., Wang, X., Li, Y., **LINGHU C.**, Gao, Y., and Song, J. et al., *Destructive electronics from electrochemical-mechanically triggered chemical dissolution*. *Journal of Micromechanics & Microengineering*, 2017, 27(6). (Ranking: **B+**, 30% in Engineering; **ESI Highly Cited (1%)**, IF = 2.2000, Citation = 19)
- [39] Zhang, S., Wang, C., **LINGHU C.**, Wang, S., & Song, J. *Mechanics strategies for implantation of flexible neural probes*. *Journal of Applied Mechanics*, 2021, 88(1). (Ranking: **A**, 20% in Mechanics; IF = 2.3000, Citation = 30)
- [40] Zhang S., Wang C., Gao H., Yu C., Yan Q., Lu Y., Tao Z., **LINGHU C.**, et al. A removable insertion shuttle for ultra-flexible neural probe implantation with stable chronic brain electrophysiological recording. *Advanced Materials Interfaces*, 2020, 7(6): 1901775. (Ranking: **A+**, 10% in Materials and Engineering; IF = 4.2997, Citation = 48)
- [41] Chen Z., Kong S., He Y., Chen S., Wang W., Jin L., Zhang S., Hong Y., Pan L., Wu H., Xie Y., **LINGHU C.**, Mao Z., Yang Z., Chan C., Song J., Lu J.*, A magnet-driven soft bistable actuator. *Advanced Functional Materials*, 2024: 2311498. (Ranking: **A+**, 5% in Materials; IF = 4.2997, Citation = 11)
- [42] Pan M.*, Lei J., **LINGHU C.**, Chris Bowen, K. Jimmy Hsia*, Bioinspired mechanisms and actuation of soft robotic crawlers, *Advanced Science*, 2025, 12(16): 2416764.
- [43] Lei J., Linghu C., Pan M.*, Hsia K. J.*, Hard-to-Soft Part Ratios in Natural Crawlers Inform Hybrid Robotic Design. *Extreme Mechanics Letters*, 2025: 102394.
- [44] Liu J., Kong X., Zhang Q., Li Y., Zhou Z., **LINGHU C.**, Yang X., Wang Y. Tough and fatigue-resistant adhesion of soft materials achieved by stress deconcentration at macroscopic scale. *Engineering Fracture Mechanics*, 2026: 112087.
- [45] 令狐昌鸿, 王高峰, 钟亮, 扈鹏飞, 夏一帆, 叶沉然, 方元祺. 环形旋流燃烧室模型点火过程的实验[J]. 航空动力学报, 2018, 33(7): 1767-1778. (EI 期刊论文, 2023 影响因子 0.657, 引用量 6)
- [46] 令狐昌鸿, 张顺, 宋吉舟. 形状记忆聚合物万能抓手[J]. 物理, 2020, 49(8): 545-547.
- [47] 罗鸿羽, 令狐昌鸿, 宋吉舟*. 可延展柔性无机电子器件的转印力学研究综述[J]. 中国科学: 物理学力学天文学, 2018, 48: 094610. (CSCD)
- [48] 叶沉然, 王高峰, 马承飏, 方元祺, 钟亮, 令狐昌鸿, 夏一帆. 斜喷环流环形燃烧室点火实验研究[J]. 工程热物理学报, 2018, 39(11): 205-214. (CSCD)

BOOK CHAPTER

- [1] **Linghu, C.**, Zhang, S., Wang, C., Luo, H., Song, J. (2021). Mass transfer for Micro-LED display: Transfer printing techniques. *Semiconductors and Semimetals*, Elsevier, 2021, ISSN 0080-8784, <https://doi.org/10.1016/bs.semsem.2020.12.002>. (引用量 22)

PATENTS OF INVENTION

- [1] **LINGHU C.** et al., Mechanics of shape-locking-governed R2G adhesion with shape memory polymers, SG 10202302659U
- [2] **LINGHU C.** et al., methods and systems for versatile robotic adhesive skins utilizing the rubbery-to-glass transition strategy for enhanced human-machine interaction in diverse adhesion environments, NTU TD 2024-015.
- [3] **LINGHU C.**, et al., ‘Soft + Stiff’ gripper for multi-scaled objects with arbitrary shapes. (CN 109955233 A)
- [4] **LINGHU C.**, et al., A universal shape memory polymer stamp for transfer printing. (CN 109941007 A)
- [5] **LINGHU C.**, et al., Continuously rotating, magnet-controlled stamp and system for transfer printing. (CN 109219342 A)
- [6] **LINGHU C.**, et al., Selective transfer printing protocol with high-speed and high-resolution. (CN 108944110 A)
- [7] **LINGHU C.**, et al., Active, bio-inspired stamp for large-scale and programmable transfer printing. (CN 108583024 A)
- [8] **LINGHU C.**, et al., Solid particle generator based on the swirling fluid-bed. (CN ZL 2016 1 0646669.7)
- [9] **LINGHU C.**, et al., A magnet-controlled stamp for transfer printing. (CN 107215111 A)
- [10] YU K., **LINGHU C.**, et al., Characterization system and automated platform of the transfer printing. (CN 109916903 A)
- [11] ZENG Y., **LINGHU C.**, et al., A universal transfer printing method for complex, 3D devices. (CN 109968852 A)
- [12] ZHANG S., **LINGHU C.**, et al., Implanting needle for flexible and implantable biosensors or integrated photonic/electronic devices and its implanting methods. (CN 108903916 A)

PATENTS OF UTILITY MODEL

- [1] **LINGHU C.**, et al., A universal stamp based on shape memory polymers for transfer printing. (CN 201920328579.2)
- [2] **LINGHU C.**, et al., A ‘soft + stiffness’ gripper based on shape memory polymers. (CN 201920316744.2)
- [3] **LINGHU C.**, et al., A bio-inspired stamp for large-scale and programmable transfer printing. (CN ZL 2018 2 1061745.9)
- [4] **LINGHU C.**, et al., A rotator-style, magnet-controlled stamp and system for transfer printing. (CN 201821764805.3)
- [5] **LINGHU C.**, et al., A magnet-controlled stamp for transfer printing. (CN ZL 2017 2 0690840.4)
- [6] **LINGHU C.**, et al., A fluid-bed based solid particle generator. (CN ZL 2016 2 0859403.6)
- [7] YU K., **LINGHU C.**, et al., A characterization system and automated platform of transfer printing techniques for flexible and stretchable integrated devices. (CN ZL 201920464059.4)
- [8] ZHANG S., **LINGHU C.**, et al., An implanting needle for flexible and implantable bio-sensors or integrated photonic/electronic devices. (CN 201821222692.4)

PROFESSIONAL AND COMMUNITY SERVICES

Research Labs and Centers

- [1] **Principal Investigator**, “I see Lab (Interfacial Science and Engineering)”, City University of Hong Kong (CityUHK)
- [2] **Director**, WISA- Research Center for Wise Sports and Athletics, City University of Hong Kong Shenzhen Research Institute (CityU-SRI)
- [3] **Member**, Centre for Robotics and Automation, City University of Hong Kong (CityUHK)

Society Services

- [1] 12/2025 - Present, International Society of Bionic Engineering, **Member**
- [2] 01/2026 - Present, The Hong Kong Society of Theoretical and Applied Mechanics, **Executive Committee Member and Treasurer**

Conference Services

- [1] 01/2026 – 10/2026, The 2nd International Conference on Bio-joining, Porto, Portugal (**Scientific Committee Member & Plenary Lecturer**)
- [2] 03/2026 – 04/2026, 2026 HKSTAM Annual Conference: International Young Scholars Forum on Mechanics Across Disciplines – Materials, Biology, Robotics, and Interfaces (IYSF-MAD 2026), Hong Kong, China (**Chair**)
- [3] 04/2026 – 06/2026, Symposium on Mechanics, Materials, and Mechanobiology (M3), Singapore, (**Symposium Chair**)
- [4] 12/2025 – 04/2026, The International Youth Conference of Bionic Science and Engineering 2026 , IYCBSE 2026, **Co-Chair**
- [5] 05/2025 – 08/2026, The 32nd International Conference on Computational & Experimental Engineering and Sciences (ICCES2026), **Session Chair** (Smart Interfaces and Surfaces: From Fundamentals to Advanced Applications)
- [6] 11/2024 – 05/2025, The 31st International Conference on Computational & Experimental Engineering and Sciences (ICCES2025), **Session Chair** (Bio-inspired smart surfaces for advanced applications: theory, simulation, and experiments)

Editorial Services

Editor

- [7] 12/2025 - Present, Soft Science, **Guest Editor**
- [1] 12/2025 - Present, Smart Materials and Devices, **Guest Editor**
- [2] 09/2025 - Present, the Journal of Polymer Materials, **Associate Editor**
- [3] 09/2024 - Present, International Journal of Smart and Nano Materials, **Guest Editor**

Early Career Board Member

- [1] 01/2026 - Present, Extreme Mechanics Letters, **Early Career Board Member**
- [2] 11/2025 - Present, FlexMat, **Early Career Board Member**
- [3] 10/2025 - Present, Soft Science, **Early Career Board Member**
- [4] 08/2025 - Present, Nano-Micro Letters, **Early Career Board Member**
- [5] 07/2025 - Present, The Innovation Materials, **Early Career Board Member**
- [6] 07/2025 - Present, Exploration, **Early Career Board Member**
- [7] 06/2025 - Present, SmartBot, **Early Career Board Member**

- [8] 05/2025 - Present, Additive Manufacturing, **Early Career Board Member**
- [9] 05/2025 - Present, Micromachines, **Early Career Board Member**
- [10] 11/2024 - Present, International Journal of Smart and Nano Materials, **Early Career Board Member**

Reviewer Services

- [1] 11/2025 - Present, International Journal of Solids and Structures, **Journal Reviewer**
- [2] 11/2025 - Present, Materials Today, **Journal Reviewer**
- [3] 09/2025 - Present, ACS Applied Materials & Interfaces, **Journal Reviewer**
- [4] 09/2025 - Present, Acta Biomaterialia, **Journal Reviewer**
- [5] 08/2025 - Present, ACS Applied Polymer Materials, **Journal Reviewer**
- [6] 08/2025 - Present, Materials Today Communications, **Journal Reviewer**
- [7] 05/2025 - Present, The Journal of Adhesion, **Journal Reviewer**
- [8] 05/2025 - Present, Acta Mechanica Sinica, **Journal Reviewer**
- [9] 03/2025 - Present, Advanced Robotics Research, **Journal Reviewer**
- [10] 03/2025 - Present, The Innovation, **Journal Reviewer**
- [11] 03/2025 - Present, Research, **Journal Reviewer**
- [12] 01/2025 - Present, Acta Mechanica, **Journal Reviewer**
- [13] 01/2025 - Present, International Journal of Mechanical Sciences, **Journal Reviewer**
- [14] 11/2024 - Present, Journal of the Mechanics and Physics of Solids, **Journal Reviewer**
- [15] 11/2024 - Present, Advanced Functional Materials, **Journal Reviewer**
- [16] 07/2024 - Present, Lubricants, **Journal Reviewer**
- [17] 07/2024 - Present, Advanced Intelligent Systems, **Journal Reviewer**
- [18] 06/2024 - Present, National Science Review, **Journal Reviewer**
- [19] 01/2024 - Present, Theoretical and Applied Mechanics Letters, **Journal Reviewer**
- [20] 10/2023 - Present, Extreme Mechanics Letters, **Journal Reviewer**
- [21] 02/2023 - Present, Science Advances, **Journal Reviewer**
- [22] 10/2022 - Present, Chemical Engineering Journal, **Journal Reviewer**

Professional Services

- [1] 02/2023 - 02/2026, YUANJU TECHNOLOGY CO. LTD., **Chief Technology Consultant**
- [2] 02/2019 - 01/2023, Hangzhou 10D Technology & Education Co. Ltd., **Co-founder and CEO**
- [3] 06/2019 - 09/2019, the Secretariat of Alumni Association of Zhejiang University in Beijing, **Secretary General**

Others

- [1] 06/2019 - 09/2019, the Home of Feng Webmaster (one large Me Media with 8 million fans), **General Manager**
- [2] 12/2018 - 12/2020, Guizhou Zunyi Zhixing Charitable Foundation, **Volunteer**
- [3] 07/2017 - 08/2017, 03/2018-05/2018, Guizhou Zunyi Tongzi County, **Village Chief Assistant**
- [4] 06/2015 - 07/2015, Xicheng Primary School of Guizhou Zunyi Tongzi, **Volunteer Teacher**
- [5] 06/2014 - 07/2014, Tailai Junior High School of Guizhou Bijie Qianxi, **Volunteer Teacher**

CONFERENCES AND INVITED TALKS

- [1] The 15th National Youth Academic Conference on Surface Engineering, Lanzhou, China, April 26–28, 2026 (Invited Talk: **Changhong LINGHU***, et al., “Shape-Adaptive Mechanical Metastructure Enables Robust Adhesion and Dynamic Capturing of 3D Objects”)
- [2] 2026 IEEE 5th International Conference on Micro/Nano Sensors for AI, Healthcare, and Robotics, Chengdu, China, April 24–27, 2026 (Invited Talk: **Changhong LINGHU***, et al., “Versatile Robotic Adhesive Skin Utilizing Shape Memory Polymers”)
- [3] 2026 HKSTAM Annual Conference: International Young Scholars Forum on Mechanics Across Disciplines – Materials, Biology, Robotics, and Interfaces (IYSF-MAD 2026), Hong Kong, China, April 17–20, 2026 (Keynote: **Changhong LINGHU***, et al., “Versatile Robotic Adhesive Skin Utilizing Shape Memory Polymers”)
- [4] International Expert Series: Frontiers in the Mechanics of Advanced Functional Materials, Smart Infrastructure Research Center, Harbin Institute of Technology, Harbin, China, January 26–27, 2026. (Invited Talk: **Changhong LINGHU***, et al., “Shape-adaptive mechanical metastructure enables robust adhesion and dynamic capturing of 3D objects”)
- [5] Symposium on Biomimetic Adhesion, Wuhan, Hubei, China, November 28–30, 2025. (Invited Talk: **Changhong LINGHU***, et al., “Shape memory polymer smart adhesion: fundamental theory and engineering applications”)*
- [6] The 10th Conference on Soft Robotics – Symposium on Fundamental Theory and Key Technologies and Soft Robotics Innovation Design Competition, Qingdao, China, November 14–16, 2025. (Invited Talk: **Changhong LINGHU***, et al., “Shape-adaptive mechanical metastructure enables robust adhesion and dynamic capturing of 3D objects”)*
- [7] Academic Lecture, School of Engineering Science, University of Science and Technology of China, Xi’an, China, November 10, 2025. (Invited Talk: **Changhong LINGHU*** et al., “A rheological paradigm revealing the intrinsic mechanism of long-term adhesion durability”)
- [8] The 4th National Conference on Soft Matter Mechanics, Xi’an, China, November 7–9, 2025. (Invited Talk: **Changhong LINGHU***, et al., “Nonlinear Contact Mechanics of Soft Elastic Spheres Under Extreme Compression”)
- [9] The 2nd China Conference on Intelligent Materials and Structural Systems, Guangzhou, China, October 31–November 2, 2025. (Invited Talk: **Changhong LINGHU***, et al., “Shape-adaptive mechanical metastructure enables robust adhesion and dynamic capturing of 3D objects”)
- [10] The 3rd World Materials Conference, Guilin, Guangxi, China, October 14–17, 2025. (Invited Talk: **Changhong LINGHU***, et al., “Shape-adaptive mechanical metastructure enables robust adhesion and dynamic capturing of 3D objects”)
- [11] The 9th International Symposium of Flexible & Stretchable Electronics 2025 (ISFSE 2025), Shenzhen, China, September 5–7, 2025. (Invited Talk: **Changhong LINGHU***, “Versatile Robotic Adhesive Skins”)
- [12] Chinese Congress of Theoretical and Applied Mechanics 2025 (CCTAM 2025), Changsha, China, July 18–21, 2025. (Invited Talk: **Changhong LINGHU***, et al., “A rheological mechanics model for long-term adhesion durability”)
- [13] **International Conference on Materials for Advanced Technologies (ICMAT) 2025**, Singapore, **June 30–July 4, 2025**. (Invited Talk: **Changhong LINGHU***, et al., “Versatile Adhesive Skin Enhances Robotic Interactions with the Environment”)
- [14] **Academic Lecture, School of Astronautics, Harbin Institute of Technology**, Harbin, China, **June 3, 2025**. (Invited Talk: **Changhong LINGHU***, et al., “A rheological paradigm revealing the intrinsic mechanism of long-term adhesion durability”)
- [15] The 31st International Conference on Computational & Experimental Engineering and Sciences (ICCES 2025), Changsha, China, May 25–29, 2025. (Invited Talk: **Changhong LINGHU***, et al., “Versatile Adhesive Skin Enhances Robotic Interactions with the Environment”)*
- [16] The 4th National Conference on Metamaterials (CMMC 2025), Shenzhen, China, May 15–18, 2025. (Oral Presentation: **Changhong LINGHU***, Huajian Gao, K. Jimmy Hsia, “Mechanics of shape memory polymer adhesive metamaterials and their applications in robotic electronic skins”)
- [17] The 1st National Conference on Surface and Interface Science, Chinese Chemical Society, Chengdu, China, May 9–12, 2025. (Invited Talk: **Changhong LINGHU***, Huajian Gao, K. Jimmy Hsia, “Ultra-strong smart adhesion based on shape memory polymer metamaterials: mechanical principles and applications”)
- [18] Forum on Original Advances in Surface and Interface Science, held as part of The 1st National Conference on Surface and Interface Science, Chinese Chemical Society, Chengdu, China, May 9–12, 2025. (Young Keynote Invited Talk: **Changhong LINGHU***, “Long-term adhesion durability revealed through a rheological paradigm”)
- [19] Academic Lecture, Institute of Applied Chemistry, Chinese Academy of Sciences, Changchun, China, November 20, 2024. (Invited Talk: **Changhong LINGHU***, Huajian Gao, K. Jimmy Hsia, Super-strong Phase Transition Adhesion Mechanism of Snails and its Biomimicry and Applications)
- [20] The 3rd National Conference on Soft Matter Mechanics, Xi'an, China, November 1-3, 2024. (Oral presentation: **Changhong LINGHU***, Huajian Gao, K. Jimmy Hsia, Adhesive metamaterials with shape memory polymers: breaking through the scaling limits of Gecko and Gecko-Inspired Adhesives)
- [21] The 2024 Society of Engineering Science (SES) Technical Meeting, Hangzhou, China. August 19-25, 2024. (Oral presentation: **Changhong LINGHU***, Huajian Gao, K. Jimmy Hsia, Overcoming the Adhesion Paradox and Switchability Conflict on Rough Surfaces with Shape Memory Polymers)
- [22] The 30th International Conference on Computational & Experimental Engineering and Sciences (ICCES2024), Singapore, August 03-06, 2024. (Oral presentation: **Changhong LINGHU***, Huajian Gao, K. Jimmy Hsia, Mechanics of Shape-Locking-Governed R2G Adhesion with Shape Memory Polymers)
- [23] Academic Lecture at the Department of Mechanical Engineering, The University of Hong Kong. Hong Kong, China. November 29, 2023. (Invited Talk: **Changhong LINGHU***, On Shear Adhesion of Gecko-inspired Adhesive Fibrils with Elastomers and Normal Adhesion of Snail-inspired Adhesives with Shape Memory Polymers)

- [24] Academic Lecture at the Department of Mechanical Engineering, The Hong Kong Polytechnic University. Hong Kong, China. November 28, 2023. (Invited Talk: **Changhong LINGHU** *, Overcoming the Adhesion Paradox and Switchability Conflict on Rough Surfaces with Shape Memory Polymers)
- [25] Academic Lecture at the School of Mechanical and Power Engineering, Shanghai Jiao Tong University. Shanghai, China. November 27, 2023. (Invited Talk: **Changhong LINGHU** *, “Mechanics and Applications of Smart Adhesive Systems Using Shape Memory Polymers”)
- [26] Academic Lecture at the School of Aerospace Engineering and Applied Mechanics, Tongji University. Shanghai, China. November 24, 2023. (Invited Talk: **Changhong LINGHU** *, “Mechanics and Applications of Smart Adhesive Systems Using Shape Memory Polymers”)
- [27] Academic Lecture at the School of Aerospace Science and Engineering, Sichuan University. Chengdu, China. November 17, 2023. (Invited Talk: **Changhong LINGHU** *, Overcoming the Adhesion Paradox and Switchability Conflict on Rough Surfaces with Shape Memory Polymers)
- [28] Solid Mechanics Seminar Series at the School of Mechanics and Aerospace Engineering, Southwest Jiaotong University. Chengdu, China. November 16, 2023. (Invited Talk: **Changhong LINGHU** *, On Shear Adhesion of Bio-inspired Adhesive Fibrils with Elastomers and the Mechanics of Shape-Locking-Governed R2G Normal Adhesion with Shape Memory Polymers)
- [29] The 39th Lecture in the Zhou Yiming Innovation and Entrepreneurship Series at Guizhou University. November 14, 2023. (Invited Talk: Changhong LINGHU *, “Mechanics and applications of strong and switchable smart adhesive using shape memory polymers”)
- [30] The 2nd National Conference on Soft Matter Mechanics. Hangzhou, China. November 10-12, 2023. (Invited Talk: **Changhong LINGHU** *, Gao H., Hsia K. J., Mechanics of Shape-Locking-Governed R2G Adhesion with Shape Memory Polymers)
- [31] Li Dasan-Ye Yaozhen Regenerative Medicine Lecture at Zhejiang University School of Medicine. Hangzhou, China. November 10, 2023. (Invited Talk: **Changhong LINGHU** *, “Super-strong phase-change adhesion mechanism of snail and its bionic and applications”)
- [32] Academic Lecture at the Soft Robotics Laboratory, Xi'an Jiaotong University. Xi'an, China. November 07, 2023. (Invited Talk: **Changhong LINGHU** *, Huajian Gao, K. Jimmy Hsia, “Mechanics and applications of strong and switchable smart adhesive using shape memory polymers”)
- [33] Academic Lecture at the School of Chemistry and Chemical Engineering, Shaanxi Normal University. Xi'an, China. November 06, 2023. (Invited talk, **Changhong LINGHU** *, Huajian Gao and K Jimmy Hsia, Overcoming the Adhesion Paradox and Switchability Conflict on Rough Surfaces with Shape Memory Polymers)
- [34] The 11th Aero-Yong Scholar Forum at the School of Aeronautics, Northwestern Polytechnical University. Xi'an, China. November 05, 2023. (Invited Talk: **Changhong LINGHU** *, Huajian Gao, K. Jimmy Hsia, “Mechanics and applications of strong and switchable smart adhesive using shape memory polymers”)
- [35] Lecture Series at the School of Advanced Manufacturing and Robotics, College of Engineering, Peking University. Beijing, China. November 02, 2023. (Invited talk, **Changhong LINGHU** *, Huajian Gao and K Jimmy Hsia, “R2G Adhesive Metamaterials toward Robotic Applications”)
- [36] Applied Mechanics Seminar Series in School of Aeronautic Science and Engineering, Beijing University of Aeronautics and Astronautics, Beijing, China. November 01, 2023. (Invited talk, **Changhong LINGHU** *, Huajian Gao and K Jimmy Hsia, Adhesive Metamaterials with Smart Materials: Overcoming the Conflicts and Breaking Through the Scaling Limits in Gecko and Gecko-Inspired Adhesives”)
- [37] “Mechanics and Safety” Seminar Series at the College of Mechanics and Safety Engineering, Zhengzhou University. Zhengzhou, China. October 30, 2023. (Invited Talk: **Changhong LINGHU** *, Huajian Gao, K. Jimmy Hsia, “Mechanics and applications of strong and switchable smart adhesive using shape memory polymers”)
- [38] the 1st CN National Conference on Smart Materials and Structural Systems. Suzhou, China. October 26-29, 2023. (Invited Talk: **Changhong LINGHU** *, Huajian Gao, K. Jimmy Hsia, “Mechanics and applications of strong and switchable smart adhesive using shape memory polymers”)
- [39] 2023 Smart Materials and Surfaces Symposium, Albufeira, Portugal, October 26, 2023. (Invited Speaker, **Changhong LINGHU** *, “Mechanics of Shape-Locking-Governed R2G Adhesion with Shape Memory Polymers”)
- [40] Applied Mechanics Seminar Series in School of Aeronautic Science and Engineering, Beijing University of Aeronautics and Astronautics, Beijing, China. May 15th, 2023. (Invited talk, **Changhong LINGHU** *, Huajian Gao and K Jimmy Hsia, Overcoming the Adhesion Paradox and Switchability Conflict on Rough Surfaces with Shape Memory Polymers)
- [41] The 2nd China Metamaterials Conference. Nanjing, China. May 11th - 14th, 2023. (Invited Talk, **Changhong LINGHU** *, Huajian Gao and K Jimmy Hsia, Adhesive metamaterials with shape memory polymers: breaking through the scaling limits).
- [42] Applied Mechanics Seminar Series 2023 in the School of Aerospace Engineering, Beijing Institute of Technology, Beijing, China. May 9th, 2023. (Invited talk, **Changhong LINGHU** *, Huajian Gao and K Jimmy Hsia, Overcoming the Adhesion Paradox and Switchability Conflict on Rough Surfaces with Shape Memory Polymers).
- [43] Applied Mechanics Seminar Series at the Department of Mechanics and Engineering Science, College of Engineering, Peking University (PKU), Beijing China. May 08th, 2023. (Invited talk, **Changhong LINGHU** *, Huajian Gao and K Jimmy Hsia, Overcoming the Adhesion Paradox and Switchability Conflict on Rough Surfaces with Shape Memory Polymers).
- [44] Applied Mechanics Seminar Series at the Institute of Applied Mechanics of Zhejiang University, Hangzhou, China. May 04th, 2023. (Invited talk, **Changhong LINGHU** *, Huajian Gao and K Jimmy Hsia, Adhesive Metamaterials with Smart Materials: Overcoming the Conflicts and Breaking Through the Scaling Limits in Gecko and Gecko-Inspired Adhesives).
- [45] Engineering and Applied Science Forum. On-line. July 19th, 2020. (Invited speaker, **Changhong LINGHU** *, Shun Zhang and Jizhou Song*. Universal SMP Gripper with Massive and Selective Capabilities for Multi-scaled, Arbitrarily Shaped Objects)

- [46] INTERNATIONAL CONFERENCE ON FLEXIBLE ELECTRONICS (ICFE 2019). Hangzhou, Zhejiang, China , July 13th - July 14th, 2019. (Poster: **Changhong LINGHU**, Shun Zhang and Jizhou Song*. Adhesion Independent Transfer Printing Technique Based on Shape Memory Polymers)
- [47] The 5th International Symposium of Flexible and Stretchable Electronics 2019 & The 5th International Workshop on Soft Machines and Mechanics 2019. Shenzhen, Guangdong, China , June 29th - June 30th, 2019 (Oral presentation and poster: **Changhong LINGHU**, Shun Zhang and Jizhou Song*. Universal SMP Gripper with Massive and Selective Capabilities for Multi-scaled, Arbitrarily Shaped Objects)
- [48] Joint Academic Forum Mechanics by Tsinghua University, Zhejiang University, Xi'an Jiaotong University and Dalian University of Technology. Dalian, China. April 25 – April 27, 2019. (Oral presentation: **Changhong LINGHU**, Jizhou Song*. Magnet-controlled transfer printing and its mechanics)
- [49] The first ZJU-TU Joint Workshop on Advanced Materials and Manufacture. Hangzhou, China. March 18 – March 19, 2019. (Oral presentation and poster: **Changhong LINGHU**, Jizhou Song*. Transfer printing technique for flexible and stretchable electronics based on tunable, reversible and rapid bio-inspired dry adhesion)
- [50] 1st CN National Congress of Soft Matter Mechanics. Hangzhou, China. November 18 – November 20, 2018. (Excellent poster: **Changhong LINGHU**, Jizhou Song*. Transfer printing technique based on rapidly tunable bio-inspired dry adhesion)
- [51] 2018 National Conference on Solid Mechanics of China. Harbin, China. November 23 – November 25, 2018. (Oral presentation: **Changhong LINGHU**, Jizhou Song*. Mechanics of magnet-controlled transfer printing.)
- [52] The 1st International Conference of Flexible Electronics. Hangzhou, China. July 16 – July 17, 2018. (Participation)
- [53] The 4th International Symposium of Flexible and Stretchable Electronics. Wuhan, China. June 29 – June 30, 2018. (Participation)
- [54] 18th U.S. National Congress of Theoretical and Applied Mechanics. Chicago, the United States. June 4 – June 9, 2018. (oral presentation: **Changhong LINGHU**, Jizhou Song*. Transfer printing based on tunable, reversible and rapid bioinspired dry adhesion)
- [55] Joint Academic Forum of Mechanics by Tsinghua University, Zhejiang University, Xi'an Jiaotong University and Dalian University of Technology. Jiaxing, Hangzhou. China, May 25 – May 27, 2018. (Participation)
- [56] The 2nd Postgraduate Forum of the Ningbo University – Zhejiang University Joint Innovation Laboratory of Applied Mechanics. Zhejiang University, Hangzhou, China. May 05, 2018. (Chair, oral presentation: **Changhong LINGHU**, Jizhou Song*. Magnet-controlled, aphid-inspired dry adhesion and its application in transfer printing)
- [57] The Chinese Congress of Theoretical and Applied Mechanics 2017. Beijing, China. August 13 – August 16, 2017. (Participation)
- [58] The Third International Symposium on Combustion Diagnostics. Xian, China. November 16 – November 18, 2016. (Oral presentation: **Changhong LINGHU**, Gaofeng Wang*. Experimental investigation on the ignition process in an annular swirling combustor model)
- [59] The 36th International Symposium on Combustion. Coex, Seoul, Korea. July 31 – August 5, 2016. (Poster, Gaofeng Wang*, Yuanqi Fang, **Changhong LINGHU**, Yin Zhu Wang. A Dedicated Experimental Facility for Investigations of the Annular Combustor/Turbine Interactions)