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專長領域 Research Field	Electromechanical device design and application, motor control, sensor and IoTs design.
Recent Publications	<p><u>Journal:</u></p> <ol style="list-style-type: none"> 1. <u>Chang-Hung Hsu*</u>, Yi-Mei Huang, Min-Fu Hsieh, Chao-Ming Fu, Shiva Adireddy, and Douglas B. Chrisey, “Transformer Sound Level Cause from Core Magnetostriction Winding Stress Displacement Variation,” <i>American Institute of Physics Advances</i>, vol. 7, no 5, pp. 056681-1-8 May 2017. (EI /SCI, Impact Factor: 1.444) 2. <u>Chang-Hung Hsu*</u>, S.-L. Lee, C.-C. Lin, C.-S. Liu, S.-Y. Chang, M.-F. Hsieh, Yi-Mei Huang, and C.-M. Fu, “Reduction of Vibration and Sound-Level for a Single-Phase Power Transformer with Large Capacity,” <i>IEEE Trans. on Magnetics</i>, vol. 51, no. 11, pp. 8403204-1-4 Nov. 2015. (EI /SCI, Impact Factor: 1.21) 3. <u>Chang-Hung Hsu</u>, M.-F. Hsieh*, C.-M. Fu, and Yi-Mei Huang, “Effects of Multicore Structure on Magnetic Losses and Magnetomechanical Vibration at High Frequencies,” <i>IEEE Trans. on Magnetics</i>, vol. 51, no. 11, pp. 8402704-1-4 Nov. 2015. (EI /SCI, Impact Factor: 1.21)

4. M.-F. Hsieh, Chang-Hung Hsu*, C.-M. Fu, and Yi-Mei Huang, "Design of Transformer with High-Permeability Ferromagnetic Core and Strengthened Windings for Short-Circuit Condition," *IEEE Transactions on Magnetics*, vol. 51, no. 11, pp. 8403304-1-4, 2015. (EI /SCI, Impact Factor: 1.21)
5. Shan-Jen Cheng, Jui-Jung Liu, Yeong-Hwa Chang, Chao-Ming Fu, Chang-Hung Hsu*, Chun-Yao Lee, and Chia-Wen Chang, "Correlation of Magnetostriction Variation on Magnetic Loss and Noise for Power Transformer," *Journal of Applied Physics*, vol. 117, 117, 17E716-1-4, 2015. (EI /SCI, Impact Factor: 2.183)
6. Chang-Hung Hsu*, J.-J. Liu, C.-M. Fu, Yi-Mei Huang, C.-W. Chang and S.-J. Cheng, "Suppressing Magnetomechanical Vibration and Noise Based on Reducing Magnetostriction for Three-Phase Power Transformer," *Journal of Applied Physics*, vol. 117, 117, 17D524-1-4, 2015. (EI /SCI, Impact Factor: 2.183)
7. Chang-Hung Hsu, C.-Y. Lee*, S.-J. Cheng, C.-M. Fu, and C.-W. Chang, "Effects of Magnetostriction and Magnetic Reluctances on Magnetic Properties of Distribution Transformers," *Journal of Applied Physics*, vol. 115, no. 17, pp. 17E718-1-3, 2014. (EI /SCI, Impact Factor: 2.21)
8. Chang-Hung Hsu, S.-J. Cheng, C.-Y. Lee*, C.-M. Fu, and C.-W. Chang, "Fe-Based Compositated Cores for Single-Phase Transformers Fabricated with High Induction Amorphous Material," *Journal of Applied Physics*, vol. 115, no. 17, pp. 17A342-1-3, 2014. (EI /SCI, Impact Factor: 2.21)
9. W.-M. Chu, K.-Y. Chang*, C.-Y. Lu, Chang-Hung Hsu, C.-H. Liu, Y.-C. Hsiao, "A New Approach to Determine the Critical Path in Stochastic Activity Network," *Journal of Applied Research and Technology*, (EI /SCI, Impact Factor: 0.355)

10. Y.-C. Hsiao*, S.-J. Cheng, K.-Y. Chang, Chang-Hung Hsu, C.-Y. Lu, C.-H. Liu, "Control of a Small Windmill Coupled a Generator Having Two Windings," *Journal of Applied Research and Technology* (EI /SCI, Impact Factor: 0.355)
11. C.-Y. Lu, Y.-C. Hsiao, C.-H. Liu, Chang-Hung Hsu, K.-Y. Chang*, S.-J. Cheng, "Robust Stability for Discrete-Time Uncertain Genetic Regulatory Networks with Infinite-Distributed Delays," *Proceedings of IEEE IS3C 2014*. (EI)
12. Chang-Hung Hsu*, et.al, "High Frequency Characteristics of Magnetostriction on Vibration and Noise for Single-Phase Transformer dependence of Magnetic Circuit Method," *Proceedings of IEEE IS3C 2014*. (EI)
13. Chang-Hung Hsu*, C.-Y. Lee, Y.-H. Chang, F.-J. Lin, C.-M Fu, J.-G. Lin, "Effect of Magnetostriction on the Core Loss, Noise, and Vibration of Fluxgate Sensor Composed of Amorphous Materials," *IEEE Trans. on Magnetics*, vol. 49, no. 9, pp: 3862-3865, 2013. (EI /SCI, Impact Factor: 1.213)
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15. Chang-Hung Hsu*, Y.-H. Chang, C.-Y. Lee, Y.-L. He, C.-S Yao, H.-L. Chu, C.-W. Chang, and W.-S. Chan, "Comprehensive Consideration of Extreme Low-Loss Distribution Transformer Development: Design, Analysis, and Measurement," *Lecture Notes in Information Technology*, vol. 9, pp: 502-508, 2012. (EI)
16. Chang-Hung Hsu*, Y.-H. Chang, C.-Y. Lee, C.-S. Yao, Y.-L. He, H.-L. Chu, C.-W Chang, and W.-S. Chan, "Effect of Uneven Surface on Magnetic

	<p>Properties of Fe-Based Amorphous Power Transformer,” <i>World Academy of Science, Engineering and Technology</i>, vol. 58, pp. 53-57, 2011.</p> <p>17. Y.-H. Chang, <u>Chang-Hung Hsu*</u>, H.-L. Chu, and C.-P. Tseng, “Magnetomechanical Vibration of Three-Phase Three-Leg Transformer with Different Amorphous-Cored Structures,” <i>IEEE Trans. on Magnetics</i>, vol. 47, no. 10, pp: 2780–2783, 2011.(EI /SCI, Impact Factor: 1.363)</p> <p>18. Y.-H. Chang, <u>Chang-Hung Hsu*</u>, H.-L. Chu, and C.-P. Tseng, “Influence of Bending Stresses on Magnetic Properties of 3-Phase, 3-Leg Transformers with Amorphous Cores,” <i>IEEE Trans. on Magnetics</i>, vol. 47, no. 10, pp: 2776–2779, 2011. (EI /SCI, Impact Factor: 1.363)</p> <p>19. Y.-H. Chang*, <u>Chang-Hung Hsu</u>, H.-W. Lin, and C.-P. Tseng, “Reducing Audible Noise for Distribution Transformer with HB1 Amorphous Core,” <i>Journal of Applied Physics</i>, vol. 109, no. 7, pp: 07A318-1-3, April 2011. (EI /SCI, Impact Factor: 2.168)</p> <p>20. B.-F. Hsu, Y.- H. Chang, Y.-C. Cheng, S.-K. Lie, C.-C. Lin, <u>Chang-Hung Hsu*</u>, C.-W. Chang, W.-S. Chan, and C. H. Chou, "Smart Maintenance System for Three- Phase Power Transformer via Fuzzy Logic Approach," <i>Int. J. of Circuits, Systems and Signal Processing</i>, vol. 5, no. 4, pp.370- 381, 2011.</p> <p>21. Y.-H. Chang*, <u>Chang-Hung Hsu</u>, and C.-P. Tseng, “Magnetic Properties Improvement of Amorphous Cores using Newly Developed Step- Lap Joints,” <i>IEEE Trans. on Magnetics</i>, vol. 46, no.6, pp.1791- 1794, 2010. (EI /SCI, Impact Factor: 1.052)</p> <p>22. Y.-H. Chang*, <u>Chang-Hung Hsu</u>, H.-W. Lin, and C.-P. Tseng, “Systematic Study of Low Loss Amorphous Core Transformers: Design Manufacturing and Testing,” <i>Int. J. of Intelligent System Science Technology</i>, vol. 2, no.1, Apr. 2010.</p> <p>23. Y.-H. Chang*, <u>Chang-Hung Hsu</u>, C.-W. Chang, C.-W. Tao, H.-W. Lin, and C.-P. Tseng, “Influence of</p>
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Annealing on Magnetic Properties and Sound Levels of Fe-Based Amorphous Cores Transformer,” *Int. J. of Electronics, Electrical and Communication Engineering*, vol. 2, no. 1, pp. 57-75, Jan.-Jun. 2010.

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3. Chang-Hung Hsu*, Chia-Wen Chang, Min-Fu Hsieh, Yi-Mei Huang, and Chin-Wang Tao, “Reduction of Switching Loss of DC to AC Power Inverter with PID-Like Fuzzy Controller, ” *2017 IEEE International Magnetics Conference (INTERMAG)*, Section: CU-03, Dublin, Ireland, 24-28 April 2017.
4. Chang-Hung Hsu*, Chia-Wen Chang, Min-Fu Hsieh, Yi-Mei Huang, and Chin-Wang Tao, “Application of Underactuated mechanism motor control in ball and beam system, ” *2017 IEEE International Magnetics Conference (INTERMAG)*, Section: FT-03, Dublin, Ireland, 24-28 April 2017.
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6. Chang-Hung Hsu*, Yi-Mei Huang, and Min-Fu Hsieh, “Three-Phase Transformer Core Magnetism dependent on Stress Dissipation by using Angle-Shaped Forming Method: A Case Study, ” *61st Annual Conference on Magnetism and Magnetic Materials*, Section CW-15,

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7. Chang-Hung Hsu*, Chao-Ming Fu, Jui-Jung Liu, Shien-Uang Jen, and Shan-Jen Cheng, "Ferromagnetic Core with High Permeability Composed with Strength Winding in Short Circuit Current," *IEEE International Magnetics Conference*, Section BG-02, Beijing, China, 11-15 May, 2015.
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10. Chang-Hung Hsu*, Shien-Uang Jen, Jui-Jung Liu, Shan-Jen Cheng, and Chao-Ming Fu, "Effects of Multi-Core Structure on Magnetic Losses and Magneto-Mechanical Vibration at High Frequencies," *IEEE International Magnetics Conference*, Section HW-10, Beijing, China, 11-15 May, 2015.
11. Chang-Hung Hsu*, Jui-Jung Liu, Chao-Ming Fu, and Shan-Jen Cheng, "Suppressing Magnetomechanical Vibration Based on Reducing Magnetostriction for Three-Phase Power Transformer," *59th Annual Conference on Magnetism and Magnetic Materials*, Section FU-02, Honolulu, Hawaii, 3-7 Nov. 2014.
12. Shan-Jen Cheng, Jui-Jung Liu, Yeong-Hwa Chang, Chao-Ming Fu, Chang-Hung Hsu*, Chun-Yao Lee, and Chia-Wen Chang, "Correlation of Magnetostriction Variation on Magnetic Loss and Noise for Power Transformer," *59th Annual Conference on Magnetism and Magnetic Materials*, Section HV-07, Honolulu, Hawaii, 3-7 Nov. 2014.

13. Shan-Jen Cheng, Chang-Hung Hsu*, and Chin-Peng Tseng, “ Fe-based Compositated Cores for Single-Phase Transformers Fabricated with High Induction Amorphous Material, ” *58th Annual Conference on Magnetism and Magnetic Materials*, Section CR-14, Denver, Colorado American, 4–8 November 2013.
14. Chang-Hung Hsu*, Chun-Yao Lee, and Shan-Jen Cheng, “ Effects of High Frequency and Hybrid-Typed Structure of Magnetic Properties on Thin Film Core with Amorphous Materials, ” *58th Annual Conference on Magnetism and Magnetic Materials*, Section EG-04, Denver, Colorado American, 4–8 November 2013.
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17. F.-J. Lin, Chang-Hung Hsu*, Y.-H. Chang, C.-Y. Lee, and C.-S. Yao, “Effect of Magnetostriction and Extreme-Low Sound Level on Three-Phase Power Transformer Development via Particle Swarm Optimization Method,” *12th Joint MMM/Intermag Conference.*, Section HU-01, Chicago, Illinois, USA, 14-18, 2013.
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19. F.-J. Lin, Chang-Hung Hsu*, Y.-H. Chang, C.-Y. Lee, and C.-H. Lin, "Application of Amorphous Material with Thin Film Fluxgate Sensor in Magnetic Property Analysis," *12th Joint MMM/Intermag Conference*, Section CX-14, Chicago, Illinois, USA, January 14-18, 2013.
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22. Chang-Hung Hsu*, C.-Y. Lee, Y.-H. Chang, H.-L. Chu, and C.-W. Chang, "Environmentally Friendly Power Device for Extreme Low-Loss HB1 Amorphous Transformer: Design, Analysis, and Measurement," *IEEE International Magnetism Conference*, Section HQ-05, Vancouver BC, Canada, May 5-11 2012.
23. Chang-Hung Hsu*, Y.-H. Chang, C.-Y. Lee, Y.-L. He, C.-S. Yao, H.-L. Chu, C.-W. Chang, and W.-S. Chan, "Comprehensive Consideration of Extreme Low-Loss Distribution Transformer Development: Design, Analysis, and Measurement," *Int. Conf. Future Electrical Power and Energy Systems*, Sanya China, February 20-22, 2012.
24. Chang-Hung Hsu*, Y.-H. Chang, H.-L. Chu, and C.-P. Tseng, "Effect of Uneven Surface on Magnetic Properties of Fe-Based Amorphous Power Transformer," *WASET International Conference*, October 26-28, 2011.

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26. Chang-Hung Hsu*, C.-Y. Lee, Y.-H. Chang, C.-S. Yao, Y.-L. He, H.-L. Chu, C.-W. Chang, and W.-S. Chan, "Effect of Harmonic of Magnetic Characteristic on Power Transformer," *56th International Magnetism Magnetic Materials Conference*, Section EH-10, Phoenix/Scottsdale, Arizona USA, December 26-28, 2011.
27. Chang-Hung Hsu*, C.-Y. Lee, Y.-H. Chang, C.-S. Yao, Y.-L. He, H.-L. Chu, C.-W. Chang, and W.-S. Chan, "Effects of Magnetomechanical Vibrations and Bending Stresses on Three-Phase Three-Leg Transformers with Amorphous Cores," *56th International Magnetism Magnetic Materials Conference*, Section EH-13, Phoenix/Scottsdale, Arizona USA, December 26-28, 2011.
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Roller Method,” *IEEE International Magnetics Conference*, Section EH-09, Taipei, Taiwan, April 25-29, 2011.

31. Y.-H. Changa, Y.-C. Cheng, S.-L. Lie, C.-C. Lin, Chang-Hung Hsu*, C.-W. Chang, and W.-S. Chan, “Smart Three-Phase Power Transformer Utilizing Fuzzy Logic Approach,” *10th WSEAS International Conference on Signal Processing, Robotics and Automation*, pp: 252-258, Cambridge, UK, February 20-22, 2011
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37. Y.-H. Chang, Chang-Hung Hsu*, C.-P. Tseng, "Systematic Design and Implementation of Large-Capacity Power Transformer," *Proceedings of the 9th WSEAS Int. Conf. on Power Systems*, Budapest, Hungary, September 3-5, 2009.
38. Y.-H. Chang, Chang-Hung Hsu*, H.-W. Lin, and C.-P. Tseng, "Magnetic Properties Improvement of Amorphous Toroidal Cores using Newly Developed Step-Lap Joints," *Proceedings of the 9th WSEAS Int. Conf. on Power Systems*, Budapest, Hungary, September 3-5, 2009.
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42. Chang-Hung Hsu*, and Y.-H. Chang, "Effect of the Annealing Temperature on Magnetic Property for Transformer with Amorphous Core," *Proceedings of the 8th WSEAS Int. Conf. on Instrumentation, Measurement, Circuits and Systems*, Hangzhou, China, May 20-22, 2009.
43. Chang-Hung Hsu*, and Y.-H. Chang, "Impacts of Fe-Based Amorphous HB1 Core Transformers on Energy Efficiency and Environment Protection," *Proceedings of the 8th WSEAS Int. Conf. on Instrumentation,*

Measurement, Circuits and Systems, Hangzhou, China, May 20-22, 2009.

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