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[J188-J198] are not listed due to the space limitation.

## Refereed Conference Papers and Presentations (Selected)

1. G. Li, Y. Ge and Z. D. Chen, "A stacked transparent metasurface for wideband lp-to-cp conversion and phase control," in *Proc. 2023 53rd European Microwave Conference (EuMC)*, Berlin, Germany, 2023, pp. 408-411.
2. H. Wang, Z. Wang, Y. Ge, Z. Xu and Z. D. Chen, "A wideband high-gain circularly polarized non-resonant partially reflective surface antenna," in *Proc. 2023 International Conference on Microwave and Millimeter Wave Technology (ICMMT)*, Qingdao, China, 2023, pp. 1-3.
3. B. Cheng, J. Hu, Y. Chen, F. Shu and Z. D. Chen, "Star-ris enhanced covert communication with delay constraint," in *Proc. 2023 IEEE/CIC International Conference on Communications in China (ICCC)*, Dalian, China, 2023, pp. 1-6.
4. Y. Chen, Y. Ge, and Z. Chen, "A wideband high gain circularly polarized metasurface horn Antenna," in *Proc. 2022 Cross-Strait Radio Science & Wireless Technology Conference* (CSRSWTC2022), Beijing, China, Dec. 17-18, 2022 (**the second-best student paper award**).
5. W. Lai, Z. Xu, K. Huang, and Z. Chen, "A T-type compensation network for wireless power transfer relay system," in *Proc. 2022 Cross-Strait Radio Science & Wireless Technology Conference* (CSRSWTC2022), Beijing, China, Dec. 17-18, 2022 (**the** **second-best paper award**).
6. H. Wang,Y. Ge, and Z. Chen, "Enhancing the performance of a circularly polarized Fabry-Perot resonator antenna with the phase compensation technique," in *Proc. 2022 Cross-Strait Radio Science & Wireless Technology Conference* (CSRSWTC2022), Beijing, China, Dec. 4-7, 2022.
7. Y. Ge, J. Wang, and Z. Chen, "A precise beam-steering solution for dual rotatable planar phase-gradient metasurface Systems," in *Proc. 2022 IEEE 9th Asia-Pacific Conf. on Antennas and Propagation* (APCAP2022), Xiamen, China, Nov. 4-7, 2022.
8. Z. Hu,Y. Ge, and Z. Chen, "Aperture study of partially reflective surface antennas for gain enhancement," in *Proc. 2022 IEEE 9th Asia-Pacific Conference on Antennas and Propagation* (APCAP2022), Xiamen, China, Nov. 4-7, 2022.
9. J. Chen,Y. Ge, and Z. Chen, "Circularly polarized lenses reduce gate flaps in sparse arrays," in *Proc. 2022 IEEE 9th Asia-Pacific Conference on Antennas and Propagation* (APCAP2022), Xiamen, China, Nov. 4-7, 2022 (**the best student paper award**).
10. A. Sun, S. Yang, and Z. Chen, "An SIE-PDE formulation with non-conformal meshes for electromagnetic analysis," in *Dig.* *2022 IEEE International Symposium on Antennas and Propagation and USNC-URSI Radio Science Meeting*, Denver, USA, July 10-15, 2022 (**honorable mention student-paper award**).
11. S. Lin, Y. Ge, and Z. Chen, "Suppression of grating lobes of large element spacing Arrays with metasurface lens," in *Dig.* *2022 IEEE International Symposium on Antennas and Propagation and USNC-URSI Radio Science Meeting*, Denver, USA, July 10-15, 2022 (**honorable mention student-paper award**).
12. Y. Cheng, L. Li, X. Wang, S. Yang, and Z. Chen, "A provably stable FDTD subgridding technique for transient electromagnetic analysis," in *Dig.* *2022 IEEE International Symposium on Antennas and Propagation and USNC-URSI Radio Science Meeting*, Denver, USA, July 10-15, 2022 (**student paper competition finalist**).
13. Z. Zhu, S. Yang, and Z. Chen, "A flexible SS-SIE to model three-dimensional composite objects with nonconformal meshes," in *Dig.* *2022 IEEE International Symposium on Antennas and Propagation and USNC-URSI Radio Science Meeting*, Denver, USA, July 10-15, 2022 (**student paper competition finalist**).
14. Y. Ge, Y. Wang, and Z. Chen, "A high-efficiency broadband ultrathin multi-function metasurface," in *Dig.* *2022 IEEE International Symposium on Antennas and Propagation and USNC-URSI Radio Science Meeting*, Denver, USA, July 10-15, 2022, Denver, Colorado, USA, July 10-15, 2022.
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16. Z. Hu, Y. Ge, and Z. Chen, "Meta phase-correcting surfaces and feed arrays for high-gain non-resonant partially reflector antennas," in *Dig. 2022 IEEE International Wireless Symposium (IWS 2022)*, Harbin, China, Aug. 12 - 15, 2022.
17. Y. Liu, Y. Gao, L. Chen, Z. Chen, S. H. Pun and M. I. Vai, "An Investigation on the Influence of blood volume in the cardiac cycle on channel gain of intracardiac communication channels," in *Proc.* 2022 IEEE MTT-S International Microwave Biomedical Conference (IMBioC), Suzhou, China, May 16-18, 2022, pp. 144-146.
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22. Y. Wang, Y. Ge, and Z. Chen, "Electromagnetic cloak using phase gradient metasurfaces," in *Dig. 2021 IEEE Antennas and Propagation Society (AP-S) International Symp.*, 2021, Singapore, July 10-16, 2021. (**honorable mention student-paper award**).
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# Industrial Contributions

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24. "Antennas Pattern Software Feasibility Study-Final Report," report for *Litton System Canada* Limited, Atlantic Division, March 21, 1995; my role was to provide the technical consultation for the report.

## Products and Computer Code Developed

1. Y. Yu, F. Jolani and Z. Chen, *X-band Frequency Selective Sheets for on-ship Radome and Electromagnetic Absorbing Materials*, delivered to Martec Ltd., June 2013.
2. Z. Chen, *RLGC Program*, developed in 1995 and used in Department OV63, Nortel Technology, Ottawa.
3. Z. Chen and J. Zhang, *Four Element Low-Profile Array Antennas*, developed and delivered to Orion Electronics Ltd in March of 2000.