**叶修竹** | 论文列表

共发表1部译著, 80余篇论文，其中31篇SCI检索论文已收录。国际会议**特邀报告**7次。近期论文多围绕电磁逆散射成像算法研究及医疗成像系统。

SCI论文 \*为通信作者

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|  | **X. Ye\***, N. Du, D. Yang, X. Yuan, R. Song, S. Sun, D. Fang, “Application of generative adversarial network-based inversion algorithm in imaging two-dimensional lossy biaxial anisotropic scatterer”, *IEEE Transactions on Antennas and Propagation*, Vol 70, issue 9, pp.8262-8275, Sep. 2022 |
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|  | X. Yuan, H. Zhou\*, **X. Ye\***, R. Zhang, M. Chen, X. Zhang, W. Li, X. Chen, L. Li, Y. Huang, G. Wang, D. Fang, “Impact of Power Spectrum in Geometrical Coding on the Scattering of Random Electromagnetic Coding Metasurface”, [*IEEE Transactions on Antennas and Propagation*](https://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=8), Vol.70, issue 5, pp. 3489-3494, 2022. |
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|  | [**X. Ye**](https://ieeexplore.ieee.org/author/38103010700), [Y. Bai](https://ieeexplore.ieee.org/author/37088543852), [R. Song](https://ieeexplore.ieee.org/author/37087004040), [K. Xu](https://ieeexplore.ieee.org/author/37085705830), [J. An](https://ieeexplore.ieee.org/author/37286060500), “[An Inhomogeneous Background Imaging Method Based on Generative Adversarial Network](https://ieeexplore.ieee.org/document/9174646/)”, [*IEEE Transactions on Microwave Theory and Techniques*](https://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=22), Vol. 68, Issue11, 2020. |
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|  | C. Fang, **X. Ye\***, Y. Zhang, Q. Wang, N. Zhang, H. Jiang and M. Bai, “Investigation of the RCS for finite bandpass frequency selective surface”, *Applied Computational Electromagnetics Society Journal*, Vol.31, Issue 6, 2019. |
|  | R. Shen, **X. Ye\***, J. Xie, Z. Chen, C. Jin, "A W-Band Circular Box-horn Antenna Array Radiating Sum and Difference Beams with Suppressed Sidelobe", *IEEE Transactions on Antennas and Propagation*, Vol. 67, Issue 9, pp. 5934-5942, 2019. |
|  | **X. Ye**\* and X. Chen, “Subspace-based distorted-Born iterative method for solving inverse scattering problems”, *IEEE Transactions on Antennas and Propagation,* Vol. 65, no.12, pp. 7224 – 7232, Dec. 2017. |
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|  | K. Xu\*, Y. Liu, L. Dong, L. Peng, S. Chen, F. Shen, **X. Ye**, X. Chen and G. Wang, “[Printed multi-band compound meta-loop antenna with hybrid-coupled SRRs](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=7AfwgllRkdoEqPPGRPQ&page=1&doc=1&cacheurlFromRightClick=no)”, *IET Microwave Antennas& Propagation*, Vol.12, no.8, pp.1382-1388, 2018.07 |
|  | Y. Chu, K. Xu\*, Y. Zhong, **X. Ye**, T, Zhou,X. Chen,, G. Wang, “[Fast Microwave Through Wall Imaging Method With Inhomogeneous Background Based on Levenberg-Marquardt Algorithm](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=2&SID=5FRwXa755VCKbXx5dBj&page=1&doc=1)”, *IEEE Transactions on Microwave Theory and Techniques*, Vol, 67, Issue, 3, pp. 1138-1147, Mar. 2019 |
|  | B. Zhang, C. Jin\*, **X. Ye**, R. Mittra, “[Dual-Band Dual-Polarized Quasi-Elliptic Frequency Selective Surfaces](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=2&SID=5FRwXa755VCKbXx5dBj&page=1&doc=2),” *IEEE Antennas and Wireless Propagation Letters*, Vol.18, Issue 2, pp.298-302, Feb. 2019 |
|  | [K. Xu](https://ieeexplore.ieee.org/author/37085705830)\*, [L. Wu](https://ieeexplore.ieee.org/author/37088541135), [**X. Ye**](https://ieeexplore.ieee.org/author/37086188149), [X. Chen](https://ieeexplore.ieee.org/author/37403977200), “[Deep Learning-Based Inversion Methods for Solving Inverse Scattering Problems With Phaseless Data](https://ieeexplore.ieee.org/document/9107447/)”, [*IEEE Transactions on Antennas and Propagation*](https://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=8), Vol. 68, Issue 11, 2020. |
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|  | Q. Zhang\*, D. Ma, X. Tang, G. Zhang, Z. Zhang, K. Xu, **X. Ye**, Y. Sun, “1-D Frequency Diverse Single-Shot Guided-Wave Imaging using Surface-Wave Goubau Line”, *IEEE Transactions on Antennas and Propagation*, Vol.68, Issue 4, pp.3194-3206, 2020. |
|  | L. Zhang, K. Xu\*, R. Song, **X. Ye**, G. Wang, X. Chen, “Learning-Based Quantitative Microwave Imaging with a Hybrid Input Scheme”, *IEEE Sensors Journal*, Vol. 20, pp.15007-15013, Dec. 2020 |
|  | Y. Huang, R. Song\*, K. Xu, **X. Ye**, C. Li, X. Chen, “[Deep Learning-Based Inverse Scattering With Structural Similarity Loss Functions](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=D5DtlFsLX6fhATD8oOo&page=1&doc=1&cacheurlFromRightClick=no)”, *IEEE Sensors Journal*, Vol.21, pp.4900-4907, 2021 |
|  | R. Song\*, Y. Huang, K. Xu, **X. Ye**, C. Li, X. Chen, “Electromagnetic Inverse Scattering With Perceptual Generative Adversarial Networks,” *IEEE Transactions on Computational Imaging*, Vol 7, pp.689-699, June 2021 |
|  | K. Xu\*, C. Zhang, **X. Ye**, R. Song, “Fast Full-Wave Electromagnetic Inverse Scattering Based on Scalable Cascaded Convolutional Neural Networks”, *IEEE Transactions on Geoscience and Remote Sensing*, Vol 60, July 2021 |
|  | P. Zhao, L. Liu, K. Xu\*, **X. Ye**, S. Chen, G. Wang, C. Chan, “An Improved Subspace-Regularized DBIM-MLGFIM Method for Three-Dimensional Inverse Scattering Problems”, *IEEE Transactions on Antennas and Propagation*, Vol.69, Issue 5, pp. 2798 – 2809, May 2021 |
|  | Y. Zhou, N. Leng, Z. Wei, **X. Ye**, M. Bai, X. Chen\*, “A Systematic Material Characterization Method via Near-Field Scanning Microwave Microscopy”, *IEEE Transactions on Microwave Theory and Techniques*, Vol. 70, 2022 |
|  | D. Yu, **X. Ye**, X. Pan\*, X. Sheng, “Fourier Bases-Expansion for Three-Dimensional Electromagnetic Inverse Scattering Problems”, IEEE Geoscience and Remote Sensing Letters, Vol 19, 2022 |

**Oral Presentations**

Seminar and Talk

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| 1 | “Microwave biomedical imaging with inhomogeneous background”, at Southern University of Science and Technology, Shenzhen, China, Nov. 2017 |
| 2 | “On Imaging Methods of Material Structures with Different Boundary Conditions”, at Fresnel Institute, Marseille, France, Mar. 2017 |
| 3 | “Breast cancer imaging - using the microwave inverse scattering method”, at L2S, Centrale Supelec, Paris, France, Mar. 2017 |

Conference Oral Presentations

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|  | (Invited Talk) D. Yang, **X. Ye\***, “Application of Generative Adversarial Network-based Inversion Algorithm in Imaging Two-dimensional Lossy Biaxial Anisotropic Scatterer”, *PhotonIcs & Electromagnetics Research Symposium*, Hangzhou, China, April 2022. |
|  | (Invited talk) **X. Ye** and X. Chen, **“**Learning approach to inverse scattering problems with special boundary conditions and inhomogeneous background, *the Applied Computational Electromagnetics Society Symposium*, Chengdu, China, Jul. 2021 |
|  | (Invited talk) **X. Ye, “**Learning Approach to inverse scattering problem for anisotropic scatterer imaging”, *Cross Strait Quad-Region Radio Science and Wireless Technology Conference,* Shenzhen, China, October 2021 |
|  | (Invited talk) **X. Ye**, **“**An inhomogeneous background microwave imaging algorithm as applied in bio-imaging”, *2019 International Conference on Microwave and Millimeter Wave Technolog*y, Guangzhou, May 2019. |
|  | (Invited talk) H. Liu and **X. Ye\***, “Reconstruction of Dielectric Pamameters of Human Tissues Using Distorted Born Iterative Method”, *2019 IEEE International Conference on Computational Electromagnetics*, Shanghai, Mar. 2019. |
|  | (Invited talk)R. Shen, **X. Ye**\*, J. Xie, “A wideband design of rectangular TE10 to circular TE01 mode transducer”, *IEEE 7th Asia-Pacific Conference on Antennas and Propagation*, Auckland, New Zealand, Aug. 2018. |
|  | (Invited Talk) **X. Ye** and X. Chen, “A distorted-Born subspace-based optimization method”, *Progress in Electromagnetics Research Symposium 2016*, Shanghai, China, Aug. 2016. |
|  | N. Du and **X. Ye**, “Foreign Matter Detection System in Human Tissue Based on Inverse Scattering Approach”, *IEEE International Microwave Biomedical Conference*, Singapore, May 2022 |
|  | Y. Guo, N. Du and **X. Ye**, “Real Time Monitoring of Vital Signs Based on Miniaturized Ultra-Wideband Radar”, *IEEE International Microwave Biomedical Conference*, Singapore, May 2022 |
|  | N. Du, D. Yang, **X. Ye**, “Human Arm Imaging System Based on Machine Learning Inverse Scattering Approach”, *PhotonIcs & Electromagnetics Research Symposium*, Hangzhou, China, April 2022. |
|  | **X. Ye**, N. Zhang, and X. Chen, “The Subspace-based Distorted-Born Iteration Method TE and Anisotropic Case”, *Progress in Electromagnetics Research Symposium 2018*, Toyama, Japan, Aug. 2018. |
|  | H. Liu, X. Shang, **X. Ye\***, “Breast Cancer Detection Using Synthetic Aperture Radar Imaging and Distorted Born Iterative Method”, *the Applied Computational Electromagnetics Society Conference*, Beijing, China, Jul. 2018. |
|  | C. Fang, N. Zhang, H. Jiang, Y. Zhang, M. Bai and **X. Ye**\*, “Investigation of the RCS for a finite bandpass frequency selective surface”, *the Applied Computational Electromagnetics Society Conference*, Beijing, China, Jul. 2018. |
|  | N. Zhang, Q. Wang, H. Jiang, M. Bai, Y. Zhang and **X. Ye**\*, “An Exploration of Finite Frequency Selective Surface Fringe Effect to Wave-transparent Mechanism”, *the Applied Computational Electromagnetics Society Conference*, Beijing, China, Jul. 2018. |
|  | H. Jiang, K. Xu, M. Bai\* and X. Ye, “A Multiband Folded Loop Antenna for Metal-Rimmed Smartphones”, *the Applied Computational Electromagnetics Society Conference*, Beijing, China, Jul. 2018. |
|  | K. Xu and **X. Ye\***, “A comparison of the MR-TSOM and DBIM in reconstructing 2D model of human breast”, *2018 Cross Strait Quad-Region Radio Science and Wireless Technology Conference*, Xuzhou, China, Jul. 2018. |
|  | Q. Wang, Y. Tong, Y. Zhang, J. Wang, X. Liu, **X. Ye,** S. Lu, “Effect of Cylindrical and Spherical Conformation on Transmission Characteristics of FSS”, *2018 12th International Symposium on Antennas, Propagation and EM Theory, ISAPE 2018 – Proceedings*, Dec. 2018. |
|  | K, Xu, **X. Ye**, Y. Zhong, X. Chen, “[A Fast Algorithm for Solving the Inverse Scattering Problems with Inhomogeneous Background](https://www.engineeringvillage.com/search/doc/abstract.url?&pageType=quickSearch&usageZone=resultslist&usageOrigin=searchresults&searchtype=Quick&SEARCHID=77590933148a435e8d63a3ac87db1362&DOCINDEX=8&ignore_docid=cpx_2c34434516775e10495M4d5e1017816339&database=1&format=quickSearchAbstractFormat&tagscope=&displayPagination=yes)”, 2*018 IEEE International Conference on Computational Electromagnetics, ICCEM 2018*, Oct., 2018 |
|  | M. Serhir, M. Lambert, D. Lesselier, **X. Ye**, “[On the Electromagnetic Probing of Man-Made and Natural Buried Structures](https://www.engineeringvillage.com/search/doc/abstract.url?&pageType=quickSearch&usageZone=resultslist&usageOrigin=searchresults&searchtype=Quick&SEARCHID=77590933148a435e8d63a3ac87db1362&DOCINDEX=10&ignore_docid=cpx_fb9d7c9168b9c478ffM64d210178163167&database=1&format=quickSearchAbstractFormat&tagscope=&displayPagination=yes)”, *2018 International Conference on Microwave and Millimeter Wave Technology, ICMMT 2018 - Proceedings*, Dec., 2018, |
|  | Y. Liu, K. Xu, S. Chen, P. Zhao, G. Wang, **X. Ye**, “[A Microwave Sensor Based on Split Ring Resonators for Differential Measuring Permittivity](https://www.engineeringvillage.com/search/doc/abstract.url?&pageType=quickSearch&usageZone=resultslist&usageOrigin=searchresults&searchtype=Quick&SEARCHID=77590933148a435e8d63a3ac87db1362&DOCINDEX=11&ignore_docid=cpx_3a36a3f51684df4ed38M73b61017816339&database=1&format=quickSearchAbstractFormat&tagscope=&displayPagination=yes)”, *Proceedings of the 2018 IEEE 7th Asia-Pacific Conference on Antennas and Propagation, APCAP 2018*, p 241-242, Nov., 2018 |
|  | W. Yu, Z. Qiao, **X. Ye\***, M. Bai, “[A Modified Method for Measuring the Faraday Rotation Angle](https://www.engineeringvillage.com/search/doc/abstract.url?&pageType=quickSearch&usageZone=resultslist&usageOrigin=searchresults&searchtype=Quick&SEARCHID=77590933148a435e8d63a3ac87db1362&DOCINDEX=12&ignore_docid=cpx_M63a14164168dd7ff576M605b10178163167&database=1&format=quickSearchAbstractFormat&tagscope=&displayPagination=yes)”, *Progress in Electromagnetics Research Symposium*, 2018-August, p706-709, Dec. 31, 2018 |
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|  | X. Chen, **X. Ye**, C. Wang, A. Hu, J. Miao, “[A Ka Band Multi-Channel Integrated Receiver for Passive Millimeter Wave Imaging System](https://www.engineeringvillage.com/search/doc/abstract.url?&pageType=quickSearch&usageZone=resultslist&usageOrigin=searchresults&searchtype=Quick&SEARCHID=77590933148a435e8d63a3ac87db1362&DOCINDEX=17&ignore_docid=cpx_M63a14164168dd7ff576M5fbb10178163167&database=1&format=quickSearchAbstractFormat&tagscope=&displayPagination=yes),” *Progress in Electromagnetics Research Symposium*, 2018-August, p 706-709, Dec. 31, 2018. |
|  | K. Xu and **X. Ye**, “A comparison of the MR-TSOM and DBIM in reconstructing 2D model of human breast”, *Sixth Asia-Pacific Conference on Antennas and Propagation*, Xi’an, China, Oct. 2017. |
|  | **X. Ye**, “Simultaneous Imaging of the Conductor and Dielectric Scatterer”, The 18th International Symposium on Applied Electromagnetics and Mechanics, Chamonix, Mont-Blanc, France, Sep. 2017 |
|  | **X. Ye**, “Inverse scattering method in reconstructing different boundary conditions”, *Applied Inverse Problems*, Hangzhou, China, June 2017 |
|  | **X. Ye**, “Electromagnetic Imaging of Wave Impenetrable Objects”, *11th European Conference on Antennas and Propagation (EUCAP),* Paris, France, Mar. 2017 |
|  | **X. Ye,** J. Shen, L. Ran and X. Chen, “Inverse Scattering based Through Wall Imaging”, *7th Asia-Pacific International Symposium on Electromagnetic Compatibility & Signal Integrity and Technical Exhibition*, Shenzhen, China, May 2016. |
|  | **X. Ye** and X. Chen, “Two-dimensional inverse scattering problems with four different boundary conditions”, *Progress In Electromagnetics Research Symposium 2015*, Prague, Czech, July 2015. |
|  | **X. Ye**, “Imaging the PEC scatterer via T-matrix based inversion method”, *2015 IEEE Symposium on Antennas and Propagation and URSI North American Radio Science Meetings*, Vancouver, Canada, July 2015. |
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|  | **X. Ye**, “Simultaneous reconstruction of the PEC and dielectric scatterers via inverse scattering method”, *Progress in Electromagnetics Research Symposium 2014*, Guangzhou, China, July 2014. |
|  | *(invited)* X. Chen and **X. Ye**, “Through-wall imaging: inverse scattering approach”, *Asia-Pacific Conference on Antennas and Propagation*, Harbin, China, July 2014. |
|  | **X. Ye** and X. Chen “Electromagnetic inverse scattering of perfectly electric conductors by the subspace-based optimization method”, *Progress In Electromagnetics Research Symposium 2011*, Suzhou, China, Sept. 2011. |
|  | **X. Ye** and X. Chen, “The investigation of the regularization term in the continuous-parameter subspace-based optimization method in reconstructing PEC objects”, *Cross Strait Quad-Regional Radio Science and Wireless Technology Conference*, Harbin, China, July 2011. |

Posters

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|  | H. Jiang, R. Shen and **X. Ye**, “A broadband antenna array for microwave imaging application”, Progress In Electromagnetics Research Symposium 2017, Singapore, Nov. 2017. |
|  | J. Li and **X. Ye**, “Electromagnetic two-dimensional scattering experiment for verifying inverse scattering problem”, *Progress in Electromagnetics Research Symposium 2017*, Singapore, Nov. 2017. |
|  | R. Song, **X. Ye**, X. Chen, “Reconstruction of electromagnetic scatterers with different boundary conditions”, *Progress in Electromagnetics Research Symposium 2013*, Taipei, Taiwan, Mar. 2013. |
|  | **X. Ye** and X. Chen, “Investigation of the optimization progress of the subspace-based optimization method in reconstructing perfect electric conductors”, *Asia-Pacific Microwave Conference,* Melbourne, Australia, Dec. 2011. |
|  | **X. Ye** and X. Chen, “The role of regularization parameter of subspace-based optimization method in solving inverse scattering problems”, *Asia-Pacific Microwave Conference*, Singapore, Dec. 2008. |

**Invention Patent (Chinese )**

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| 1. 2018108535703   （Granted） | Slot array antenna and its power division network based on substrate integrated waveguide |
| 1. 202210114750.6 | A Background Clutter Suppressing Method for Through wall Radar based on MIMO Antenna |
| 1. 202210114749.3 | A Multi targets Imaging Method based on Miniaturized FMCW Through wall Radar |
| 1. 202210401949.7 | A real-time microwave human body penetrating imaging method based on deep learning algorithm |

**Book**

Co-translator for Chinese translation of “Microwave and Millimeter-Wave Remote Sensing for Security Applications”, *Machinery Industry Press, 2015,* ISBN: 9787111499275