# Junxin Chen

List of Publications by Year
in descending order

| | | | |
|---|---|---|---|
| 66<br>papers | 2,528<br>citations | 185998<br>28<br>h-index | 197535<br>49<br>g-index |
| 66<br>all docs | 66<br>docs citations | 66<br>times ranked | 1529<br>citing authors |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 1 | Exploiting self-adaptive permutation–diffusion and DNA random encoding for secure and efficient image encryption. Signal Processing, 2018, 142, 340-353. | 2.1 | 263 |
| 2 | Realizing the Potential of the Internet of Things for Smart Tourism with 5G and AI. IEEE Network, 2020, 34, 295-301. | 4.9 | 158 |
| 3 | Exploiting chaos-based compressed sensing and cryptographic algorithm for image encryption and compression. Optics and Laser Technology, 2018, 99, 238-248. | 2.2 | 132 |
| 4 | A fast chaos-based image encryption scheme with a dynamic state variables selection mechanism. Communications in Nonlinear Science and Numerical Simulation, 2015, 20, 846-860. | 1.7 | 131 |
| 5 | Cryptanalysis of a DNA-based image encryption scheme. Information Sciences, 2020, 520, 130-141. | 4.0 | 112 |
| 6 | An efficient image encryption scheme using lookup table-based confusion and diffusion. Nonlinear Dynamics, 2015, 81, 1151-1166. | 2.7 | 101 |
| 7 | Low-Cost and Confidentiality-Preserving Data Acquisition for Internet of Multimedia Things. IEEE Internet of Things Journal, 2018, 5, 3442-3451. | 5.5 | 88 |
| 8 | Trust-Enhanced Collaborative Filtering for Personalized Point of Interests Recommendation. IEEE Transactions on Industrial Informatics, 2020, 16, 6124-6132. | 7.2 | 88 |
| 9 | An image encryption scheme using nonlinear inter-pixel computing and swapping based permutation approach. Communications in Nonlinear Science and Numerical Simulation, 2015, 23, 294-310. | 1.7 | 73 |
| 10 | An efficient image encryption scheme using gray code based permutation approach. Optics and Lasers in Engineering, 2015, 67, 191-204. | 2.0 | 71 |
| 11 | A novel double-image encryption scheme based on cross-image pixel scrambling in gyrator domains. Optics Express, 2014, 22, 7349. | 1.7 | 67 |
| 12 | A fast image encryption scheme with a novel pixel swapping-based confusion approach. Nonlinear Dynamics, 2014, 77, 1191-1207. | 2.7 | 67 |
| 13 | Analysis and improvement of a double-image encryption scheme using pixel scrambling technique in gyrator domains. Optics and Lasers in Engineering, 2015, 66, 1-9. | 2.0 | 65 |
| 14 | Automatic skin lesion segmentation based on FC-DPN. Computers in Biology and Medicine, 2020, 123, 103762. | 3.9 | 54 |
| 15 | Cryptanalysis and improvement in an image encryption scheme using combination of the 1D chaotic map. Nonlinear Dynamics, 2018, 93, 2399-2413. | 2.7 | 51 |
| 16 | Geography-Aware Inductive Matrix Completion for Personalized Point-of-Interest Recommendation in Smart Cities. IEEE Internet of Things Journal, 2020, 7, 4361-4370. | 5.5 | 51 |
| 17 | Reusing the permutation matrix dynamically for efficient image cryptographic algorithm. Signal Processing, 2015, 111, 294-307. | 2.1 | 50 |
| 18 | Medical image cipher using hierarchical diffusion and non-sequential encryption. Nonlinear Dynamics, 2019, 96, 301-322. | 2.7 | 50 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 19 | An improved permutation-diffusion type image cipher with a chaotic orbit perturbing mechanism. Optics Express, 2013, 21, 27873. | 1.7 | 49 |
| 20 | Compressed Sensing Framework for Heart Sound Acquisition in Internet of Medical Things. IEEE Transactions on Industrial Informatics, 2022, 18, 2000-2009. | 7.2 | 49 |
| 21 | Optical image encryption scheme using 3-D chaotic map based joint image scrambling and random encoding in gyrator domains. Optics Communications, 2015, 341, 263-270. | 1.0 | 39 |
| 22 | Differential attack on a hyper-chaos-based image cryptosystem with a classic bi-modular architecture. Nonlinear Dynamics, 2017, 87, 383-390. | 2.7 | 39 |
| 23 | Gyrator transform based double random phase encoding with sparse representation for information authentication. Optics and Laser Technology, 2015, 70, 50-58. | 2.2 | 37 |
| 24 | Infrared target-based selective encryption by chaotic maps. Optics Communications, 2015, 341, 131-139. | 1.0 | 37 |
| 25 | Compressed Sensing Based Selective Encryption With Data Hiding Capability. IEEE Transactions on Industrial Informatics, 2019, 15, 6560-6571. | 7.2 | 33 |
| 26 | A fast chaos-based symmetric image cryptosystem with an improved diffusion scheme. Optik, 2014, 125, 2472-2478. | 1.4 | 31 |
| 27 | Deciphering an image cipher based on 3-cell chaotic map and biological operations. Nonlinear Dynamics, 2015, 82, 1831-1837. | 2.7 | 31 |
| 28 | Graphene-Enhanced Surface Plasmon Resonance Liquid Refractive Index Sensor Based on Photonic Crystal Fiber. Sensors, 2019, 19, 3666. | 2.1 | 30 |
| 29 | Cryptanalysis of Image Ciphers With Permutation-Substitution Network and Chaos. IEEE Transactions on Circuits and Systems for Video Technology, 2021, 31, 2494-2508. | 5.6 | 30 |
| 30 | Improved Reconstruction for CS-Based ECG Acquisition in Internet of Medical Things. IEEE Sensors Journal, 2021, 21, 25222-25233. | 2.4 | 30 |
| 31 | Facilely Accessible Porous Conjugated Polymers toward High-Performance and Flexible Organic Electrochemical Transistors. Chemistry of Materials, 2022, 34, 1666-1676. | 3.2 | 30 |
| 32 | The effect of the donor moiety of DPP based polymers on the performance of organic electrochemical transistors. Journal of Materials Chemistry C, 2021, 9, 13338-13346. | 2.7 | 28 |
| 33 | Cross-Modality LGE-CMR Segmentation Using Image-to-Image Translation Based Data Augmentation. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2023, 20, 2367-2375. | 1.9 | 28 |
| 34 | Cryptanalysis and improvement of an optical image encryption scheme using a chaotic Baker map and double random phase encoding. Journal of Optics (United Kingdom), 2014, 16, 125403. | 1.0 | 27 |
| 35 | Security enhancement of double random phase encoding using rear-mounted phase masking. Optics and Lasers in Engineering, 2018, 101, 51-59. | 2.0 | 26 |
| 36 | Exploiting 5G and Blockchain for Medical Applications of Drones. IEEE Network, 2021, 35, 30-36. | 4.9 | 26 |

| # | Article | IF | Citations |
|---|---------|----|-----------|
| 37 | Propylene and butylene glycol: new alternatives to ethylene glycol in conjugated polymers for bioelectronic applications. Materials Horizons, 2022, 9, 973-980. | 6.4 | 23 |
| 38 | Efficient n-Type Small-Molecule Mixed Ion-Electron Conductors and Application in Hydrogen Peroxide Sensors. ACS Applied Materials &amp; Interfaces, 2022, 14, 16477-16486. | 4.0 | 22 |
| 39 | Survey on atrial fibrillation detection from a single-lead ECG wave for Internet of Medical Things. Computer Communications, 2021, 178, 245-258. | 3.1 | 21 |
| 40 | Universal Chosen-Ciphertext Attack for a Family of Image Encryption Schemes. IEEE Transactions on Multimedia, 2021, 23, 2372-2385. | 5.2 | 20 |
| 41 | Global context aware RCNN for object detection. Neural Computing and Applications, 2021, 33, 11627-11639. | 3.2 | 15 |
| 42 | Information authentication using sparse representation of double random phase encoding in fractional Fourier transform domain. Optik, 2017, 136, 1-7. | 1.4 | 14 |
| 43 | Optical information authentication using optical encryption and sparsity constraint. Optics and Lasers in Engineering, 2018, 107, 352-363. | 2.0 | 13 |
| 44 | Dual-Channel Neural Network for Atrial Fibrillation Detection From a Single Lead ECG Wave. IEEE Journal of Biomedical and Health Informatics, 2023, 27, 2296-2305. | 3.9 | 13 |
| 45 | Cryptanalysis and Improvement of a Chaos-Based Watermarking Scheme. IEEE Access, 2019, 7, 97549-97565. | 2.6 | 12 |
| 46 | DDCNN: A Deep Learning Model for AF Detection From a Single-Lead Short ECG Signal. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 4987-4995. | 3.9 | 12 |
| 47 | Cryptanalysis of a chaotic image cipher based on plaintext-related permutation and lookup table. Nonlinear Dynamics, 2020, 100, 3959-3978. | 2.7 | 10 |
| 48 | Comparative Study of Compressed Sensing for Heart Sound Acquisition in Wireless Body Sensor Networks. IEEE Access, 2020, 8, 22483-22492. | 2.6 | 10 |
| 49 | An Efficient Diffusion Scheme for Chaos-Based Digital Image Encryption. Mathematical Problems in Engineering, 2014, 2014, 1-13. | 0.6 | 9 |
| 50 | Optical information authentication via compressed sensing and double random phase encoding. Journal of Optics (United Kingdom), 2017, 19, 105702. | 1.0 | 7 |
| 51 | Compressed sensing for electrocardiogram acquisition in wireless body sensor network: A comparative analysis. International Journal of Distributed Sensor Networks, 2019, 15, 155014771986488. | 1.3 | 7 |
| 52 | A Fast Chaos-Based Colour Image Encryption Algorithm Using a Hash Function. Informatica, 2018, 29, 651-673. | 1.5 | 7 |
| 53 | Re-Evaluation of the Security of a Family of Image Diffusion Mechanisms. IEEE Transactions on Circuits and Systems for Video Technology, 2021, 31, 4747-4758. | 5.6 | 6 |
| 54 | Deciphering an RGB color image cryptosystem based on Choquet fuzzy integral. Neural Computing and Applications, 2017, 28, 165-169. | 3.2 | 5 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 55 | On the Security of Optical Ciphers Under the Architecture of Compressed Sensing Combining With Double Random Phase Encoding. IEEE Photonics Journal, 2017, 9, 1-11. | 1.0 | 5 |
| 56 | Predicting Unnecessary Nodule Biopsies from a Small, Unbalanced, and Pathologically Proven Dataset by Transfer Learning. Journal of Digital Imaging, 2020, 33, 685-696. | 1.6 | 5 |
| 57 | Wi-Breath: A WiFi-Based Contactless and Real-Time Respiration Monitoring Scheme for Remote Healthcare. IEEE Journal of Biomedical and Health Informatics, 2023, 27, 2276-2285. | 3.9 | 5 |
| 58 | Cryptanalysis of Optical Ciphers Integrating Double Random Phase Encoding With Permutation. IEEE Access, 2017, 5, 16124-16129. | 2.6 | 4 |
| 59 | Ensemble Learning-Based Atrial Fibrillation Detection From Single Lead ECG Wave for Wireless Body Sensor Network. IEEE Transactions on Network Science and Engineering, 2023, 10, 2627-2636. | 4.1 | 3 |
| 60 | An approach for physical layer security enhancement and PAPR reduction in OFDM-PON. Optical Fiber Technology, 2017, 36, 370-373. | 1.4 | 2 |
| 61 | Cardiac LGE MRI Segmentation With Cross-Modality Image Augmentation and Improved U-Net. IEEE Journal of Biomedical and Health Informatics, 2023, 27, 588-597. | 3.9 | 2 |
| 62 | Ensemble Learning for Atrial Fibrillation Screening from a Single Lead ECG Wave of Wearable Devices. , 2021, , . | | 2 |
| 63 | Combining Multiple Style Transfer Networks and Transfer Learning For LGE-CMR Segmentation. , 2022, , . | | 2 |
| 64 | Image Encryption Based on Fully Phase Encoding and Pixel Scrambling in Gyrator Transform Domain. , 2018, , . | | 0 |
| 65 | Exploiting the Security Aspects of Compressive Sampling. Security and Communication Networks, 2018, 2018, 1-1. | 1.0 | 0 |
| 66 | Design of a Multilayer Dual-Band Balanced Bandpass Filter on a Circular Patch Resonator. Frontiers in Physics, 2021, 9, . | 1.0 | 0 |