

Yan Fang

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

270
citations

1163117

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h-index

1281871

11
g-index

24
all docs

24
docs citations

24
times ranked

404
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Non-Boolean associative architectures based on nano-oscillators. , 2012, , . | | 42 |
| 2 | Pattern recognition with "materials that compute" Science Advances, 2016, 2, e1601114. | 10.3 | 42 |
| 3 | Neuro-Mimetic Dynamics of a Ferroelectric FET-Based Spiking Neuron. IEEE Electron Device Letters, 2019, 40, 1213-1216. | 3.9 | 39 |
| 4 | Computational Architectures Based on Coupled Oscillators. , 2014, , . | | 22 |
| 5 | Learning to Walk: Spike Based Reinforcement Learning for Hexapod Robot Central Pattern Generation. , 2020, , . | | 19 |
| 6 | A Swarm Optimization Solver Based on Ferroelectric Spiking Neural Networks. Frontiers in Neuroscience, 2019, 13, 855. | 2.8 | 18 |
| 7 | Designing self-powered materials systems that perform pattern recognition. Chemical Communications, 2017, 53, 7692-7706. | 4.1 | 12 |
| 8 | Non-Boolean Associative Processing: Circuits, System Architecture, and Algorithms. IEEE Journal on Exploratory Solid-State Computational Devices and Circuits, 2015, 1, 94-102. | 1.5 | 11 |
| 9 | <i>Learning to Walk</i>: Bio-Mimetic Hexapod Locomotion via Reinforcement-Based Spiking Central Pattern Generation. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2020, 10, 536-545. | 3.6 | 11 |
| 10 | Merged Logic and Memory Fabrics for Accelerating Machine Learning Workloads. IEEE Design and Test, 2021, 38, 39-68. | 1.2 | 10 |
| 11 | An End-to-End Spiking Neural Network Platform for Edge Robotics: From Event-Cameras to Central Pattern Generation. IEEE Transactions on Cognitive and Developmental Systems, 2022, 14, 1092-1103. | 3.8 | 8 |
| 12 | HMAX image processing pipeline with coupled oscillator acceleration. , 2014, , . | | 4 |
| 13 | Image segmentation using frequency locking of coupled oscillators. , 2014, , . | | 4 |
| 14 | A Computational Primitive for Convolution based on Coupled Oscillator Arrays. , 2015, , . | | 4 |
| 15 | Modeling oscillator arrays for video analytic applications. , 2014, , . | | 3 |
| 16 | An image processing pipeline using coupled oscillators. , 2014, , . | | 3 |
| 17 | Achieving Swarm Intelligence with Spiking Neural Oscillators. , 2017, , . | | 3 |
| 18 | Detecting spatial defects in colored patterns using self-oscillating gels. Journal of Applied Physics, 2018, 123, 215107. | 2.5 | 3 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Bio-inspired Gait Imitation of Hexapod Robot Using Event-Based Vision Sensor and Spiking Neural Network. , 2020, , . | | 3 |
| 20 | A Simplified Phase Model for Simulation of Oscillator-Based Computing Systems. ACM Journal on Emerging Technologies in Computing Systems, 2017, 13, 1-20. | 2.3 | 2 |
| 21 | Tuning the synchronization of a network of weakly coupled self-oscillating gels via capacitors. Chaos, 2018, 28, 053106. | 2.5 | 2 |
| 22 | A Simplified Phase Model for Oscillator Based Computing. , 2015, , . | | 1 |
| 23 | Online Reward-Based Training of Spiking Central Pattern Generator for Hexapod Locomotion. , 2020, , . | | 1 |