# Marco Storace

List of Publications by Year
in descending order

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|---|---|---|---|
| **149**<br>papers | **1,711**<br>citations | 361045<br>**20**<br>h-index | 377514<br>**34**<br>g-index |
| **150**<br>all docs | **150**<br>docs citations | **150**<br>times ranked | **1130**<br>citing authors |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 1 | The Hindmarsh–Rose neuron model: Bifurcation analysis and piecewise-linear approximations. Chaos, 2008, 18, 033128. | 1.0 | 188 |
| 2 | Ultra-Fast Stabilizing Model Predictive Control via Canonical Piecewise Affine Approximations. IEEE Transactions on Automatic Control, 2011, 56, 2883-2897. | 3.6 | 98 |
| 3 | Piecewise-Linear Approximation of Nonlinear Dynamical Systems. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2004, 51, 830-842. | 0.1 | 72 |
| 4 | Accurate and Fast Simulation of Channel Noise in Conductance-Based Model Neurons by Diffusion Approximation. PLoS Computational Biology, 2011, 7, e1001102. | 1.5 | 68 |
| 5 | Digital architectures realizing piecewise–linear multivariate functions: Two FPGA implementations. International Journal of Circuit Theory and Applications, 2011, 39, 1-15. | 1.3 | 44 |
| 6 | Codimension-Two Homoclinic Bifurcations Underlying Spike Adding in the Hindmarsh--Rose Burster. SIAM Journal on Applied Dynamical Systems, 2012, 11, 939-962. | 0.7 | 44 |
| 7 | A modular supervised algorithm for vessel segmentation in red-free retinal images. Computers in Biology and Medicine, 2008, 38, 913-922. | 3.9 | 41 |
| 8 | A Power-Loss-Dependent Inductance Model for Ferrite-Core Power Inductors in Switch-Mode Power Supplies. IEEE Transactions on Circuits and Systems I: Regular Papers, 2019, 66, 2394-2402. | 3.5 | 35 |
| 9 | A method for the approximate synthesis of cellular non-linear networks?Part 1: Circuit definition. International Journal of Circuit Theory and Applications, 2003, 31, 277-297. | 1.3 | 33 |
| 10 | A Switched Predictive Controller for an Electrical Powertrain System With Backlash. IEEE Transactions on Power Electronics, 2017, 32, 4036-4047. | 5.4 | 31 |
| 11 | Model-Based Compensation of Rate-Dependent Hysteresis in a Piezoresistive Strain Sensor. IEEE Transactions on Industrial Electronics, 2019, 66, 8205-8213. | 5.2 | 31 |
| 12 | Synthesis of nonlinear multiport resistors: a PWL approach. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2002, 49, 1138-1149. | 0.1 | 30 |
| 13 | A PWL ladder circuit which exhibits hysteresis. International Journal of Circuit Theory and Applications, 1994, 22, 513-526. | 1.3 | 29 |
| 14 | Synthesis of multiport resistors with piecewise-linear characteristics: a mixed-signal architecture. International Journal of Circuit Theory and Applications, 2005, 33, 307-319. | 1.3 | 27 |
| 15 | Circuit implementation of piecewise-affine functions based on a binary search tree. , 2009, , . | | 25 |
| 16 | Two FPGA-Oriented High-Speed Irradiance Virtual Sensors for Photovoltaic Plants. IEEE Transactions on Industrial Informatics, 2017, 13, 157-165. | 7.2 | 25 |
| 17 | An MPC-Based Approach for Emergency Control Ensuring Transient Stability in Power Grids With Steam Plants. IEEE Transactions on Industrial Electronics, 2019, 66, 5412-5422. | 5.2 | 25 |
| 18 | Design Principles for Central Pattern Generators With Preset Rhythms. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 3658-3669. | 7.2 | 24 |

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| 19 | Experimental bifurcation diagram of a circuit-implemented neuron model. Physics Letters, Section A: General, Atomic and Solid State Physics, 2010, 374, 4589-4593. | 0.9 | 21 |
| 20 | FPGA Implementations of Piecewise Affine Functions Based on Multi-Resolution Hyperrectangular Partitions. IEEE Transactions on Circuits and Systems I: Regular Papers, 2012, 59, 2920-2933. | 3.5 | 21 |
| 21 | Open-Loop Compensation of Hysteresis and Creep Through a Power-Law Circuit Model. IEEE Transactions on Circuits and Systems I: Regular Papers, 2016, 63, 413-422. | 3.5 | 21 |
| 22 | Accurate Modeling of Inductors Working in Nonlinear Region in Switch-Mode Power Supplies with Different Load Currents. , 2018, , . | | 21 |
| 23 | Towards analog implementations of PWL two-dimensional non-linear functions. International Journal of Circuit Theory and Applications, 2005, 33, 147-160. | 1.3 | 20 |
| 24 | Digital Circuit Realization of Piecewise-Affine Functions With Nonuniform Resolution: Theory and FPGA Implementation. IEEE Transactions on Circuits and Systems II: Express Briefs, 2010, 57, 131-135. | 2.2 | 20 |
| 25 | A hysteresis-based chaotic circuit: dynamics and applications. International Journal of Circuit Theory and Applications, 1999, 27, 527-542. | 1.3 | 19 |
| 26 | Nonlinear behavioural model of charge pump PLLs. International Journal of Circuit Theory and Applications, 2013, 41, 1027-1046. | 1.3 | 19 |
| 27 | Improving power grids transient stability via Model Predictive Control. , 2014, , . | | 19 |
| 28 | A method for the approximate synthesis of cellular non-linear networks?Part 2: Circuit reduction. International Journal of Circuit Theory and Applications, 2003, 31, 299-313. | 1.3 | 18 |
| 29 | FPGA implementation of optimal and approximate model predictive control for a buck-boost DC-DC converter. , 2012, , . | | 18 |
| 30 | Analyzing synchronized clusters in neuron networks. Scientific Reports, 2020, 10, 16336. | 1.6 | 17 |
| 31 | Simple realisation of hysteresis chaos generator. Electronics Letters, 1998, 34, 10. | 0.5 | 16 |
| 32 | High-Speed Piecewise Affine Virtual Sensors. IEEE Transactions on Industrial Electronics, 2012, 59, 1228-1237. | 5.2 | 16 |
| 33 | Ferrite inductor models for switch-mode power supplies analysis and design. , 2017, , . | | 16 |
| 34 | Piecewise linear implementation of nonlinear dynamical systems: from theory to practice. Electronics Letters, 2009, 45, 966. | 0.5 | 15 |
| 35 | Static and dynamic hysteretic features in a PWL circuit. International Journal of Circuit Theory and Applications, 1996, 24, 183-199. | 1.3 | 14 |
| 36 | Inferring Network Dynamics and Neuron Properties from Population Recordings. Frontiers in Computational Neuroscience, 2011, 5, 43. | 1.2 | 14 |

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| 37 | Memory characteristics of hysteresis and creep in multi-layer piezoelectric actuators: An experimental analysis. Physica B: Condensed Matter, 2014, 435, 40-43. | 1.3 | 14 |
| 38 | Integrated circuit implementation of multi-dimensional piecewise-linear functions. , 2010, 20, 1723-1732. | | 13 |
| 39 | Hardware-in-the-loop simulations of circuit architectures for the computation of exact and approximate explicit MPC control functions. , 2012, , . | | 13 |
| 40 | Dimensional reduction in networks of non-Markovian spiking neurons: Equivalence of synaptic filtering and heterogeneous propagation delays. PLoS Computational Biology, 2019, 15, e1007404. | 1.5 | 13 |
| 41 | A Nonlinear Inductance Model Able to Reproduce Thermal Transient in SMPS Simulations. , 2019, , . | | 13 |
| 42 | One-way dependent clusters and stability of cluster synchronization in directed networks. Nature Communications, 2021, 12, 4073. | 5.8 | 13 |
| 43 | Piecewise-Linear Identification of Nonlinear Dynamical Systems in View of Their Circuit Implementations. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2007, 54, 1542-1554. | 0.1 | 12 |
| 44 | A Circuit Model of Hysteresis and Creep. IEEE Transactions on Circuits and Systems II: Express Briefs, 2015, 62, 501-505. | 2.2 | 12 |
| 45 | Behavioral Models for Ferrite-Core Inductors in Switch-Mode DC-DC Power Supplies: A Survey. , 2019, , . | | 12 |
| 46 | Nonlinear models of power inductors: A survey. International Journal of Circuit Theory and Applications, 2022, 50, 2. | 1.3 | 12 |
| 47 | Design of Synthetic Central Pattern Generators Producing Desired Quadruped Gaits. IEEE Transactions on Circuits and Systems I: Regular Papers, 2018, 65, 1028-1039. | 3.5 | 11 |
| 48 | A Nonlinear Behavioral Ferrite-Core Inductance Model Able to Reproduce Thermal Transients in Switch-Mode Power Supplies. IEEE Transactions on Circuits and Systems I: Regular Papers, 2020, 67, 1255-1263. | 3.5 | 11 |
| 49 | Simulations of the behavior of synaptically driven neurons via time-invariant circuit models. IEEE Transactions on Biomedical Engineering, 1997, 44, 1282-1287. | 2.5 | 10 |
| 50 | Discontinuities in a one-dimensional map describing a hysteretic chaotic circuit. Nonlinear Analysis: Theory, Methods & Applications, 2001, 47, 5253-5264. | 0.6 | 10 |
| 51 | MOBY-DIC: A MATLAB Toolbox for Circuit-Oriented Design of Explicit MPC. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 218-225. | 0.4 | 10 |
| 52 | Accurate and Efficient PSD Computation in Mixed-Signal Circuits: A Time-Domain Approach. IEEE Transactions on Circuits and Systems II: Express Briefs, 2014, 61, 905-909. | 2.2 | 10 |
| 53 | Basic bifurcation analysis of a hysteresis oscillator. International Journal of Circuit Theory and Applications, 2001, 29, 343-366. | 1.3 | 9 |
| 54 | TWO-DIMENSIONAL BIFURCATION DIAGRAMS OF A CHAOTIC CIRCUIT BASED ON HYSTERESIS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2002, 12, 43-69. | 0.7 | 9 |

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| 55 | A Simplicial PWL Integrated Circuit Realization. , 2007, , . | | 9 |
| 56 | Towards Accurate PWL Approximations of Parameter-Dependent Nonlinear Dynamical Systems With Equilibria and Limit Cycles. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2007, 54, 620-631. | 0.1 | 9 |
| 57 | Low-complexity approximations of PWA functions: A case study on Adaptive Cruise Control. , 2011, , . | | 9 |
| 58 | Automatic Domain Partitioning of Piecewise-Affine Simplicial Functions Implementing Model Predictive Controllers. IEEE Transactions on Circuits and Systems II: Express Briefs, 2015, 62, 886-890. | 2.2 | 9 |
| 59 | Model Reduction for Optimized Online Compensation of Hysteresis and Creep in Piezoelectric Actuators. IEEE Transactions on Circuits and Systems II: Express Briefs, 2018, 65, 1748-1752. | 2.2 | 9 |
| 60 | Generalized half-center oscillators with short-term synaptic plasticity. Physical Review E, 2020, 102, 032406. | 0.8 | 9 |
| 61 | On a circuit representation of the Hodgkin and Huxley nerve axon membrane equations. International Journal of Circuit Theory and Applications, 1997, 25, 115-124. | 1.3 | 8 |
| 62 | RC op-amp implementation of hysteresis chaotic oscillator. Electronics Letters, 2001, 37, 209. | 0.5 | 8 |
| 63 | PWL approximation of nonlinear dynamical systems, part I: structural stability. Journal of Physics: Conference Series, 2005, 22, 208-221. | 0.3 | 8 |
| 64 | Bifurcation analysis and its experimental validation for a hysteresis circuit oscillator. IEEE Transactions on Circuits and Systems Part 2: Express Briefs, 2006, 53, 517-521. | 2.3 | 8 |
| 65 | A Piecewise-Affine Inductance Model for Inductors Working in Nonlinear Region. , 2019, , . | | 8 |
| 66 | Cellular non-linear networks for minimization of functionals. Part 1: Theoretical aspects. International Journal of Circuit Theory and Applications, 2001, 29, 151-167. | 1.3 | 7 |
| 67 | BIFURCATION ANALYSIS OF A PWL CHAOTIC CIRCUIT BASED ON HYSTERESIS THROUGH A ONE-DIMENSIONAL MAP. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2001, 11, 1911-1927. | 0.7 | 7 |
| 68 | Synthesis of stabilizing model predictive controllers via canonical piecewise affine approximations. , 2010, , . | | 7 |
| 69 | Transient dynamics of an adiabatic NEMS. Annalen Der Physik, 2014, 526, 541-554. | 0.9 | 7 |
| 70 | Low-complexity digital architecture for solving the point location problem in explicit Model Predictive Control. Journal of the Franklin Institute, 2015, 352, 2249-2258. | 1.9 | 7 |
| 71 | CEPAGE: A toolbox for Central Pattern Generator analysis. , 2017, , . | | 7 |
| 72 | On the representation of static hysteresis curves by a PWL ladder circuit. International Journal of Circuit Theory and Applications, 1998, 26, 167-177. | 1.3 | 6 |

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| 73 | Secure communication by hysteresis-based chaotic circuit. Electronics Letters, 1998, 34, 1077. | 0.5 | 6 |
| 74 | Cellular non-linear networks for minimization of functionals. Part 2: Examples. International Journal of Circuit Theory and Applications, 2001, 29, 169-184. | 1.3 | 6 |
| 75 | FPGA implementation of a new scheme for the circuit realization of PWL functions. , 2007, , . | | 6 |
| 76 | BIFURCATION ANALYSIS OF AN IMPACT MODEL FOR FOREST FIRE PREDICTION. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2008, 18, 2275-2288. | 0.7 | 6 |
| 77 | Circuit realization of Markov random fields for analog image processing. International Journal of Circuit Theory and Applications, 1998, 26, 477-498. | 1.3 | 5 |
| 78 | Dynamic behaviour of hysteresis chaotic circuit. Electronics Letters, 1999, 35, 1896. | 0.5 | 5 |
| 79 | A procedure for the computation of accurate PWL approximations of non-linear dynamical systems. International Journal of Circuit Theory and Applications, 2006, 34, 237-248. | 1.3 | 5 |
| 80 | Reliable and efficient phase noise simulation of mixed-mode integer-N Phase-Locked Loops. , 2013, , . | | 5 |
| 81 | Hysteresis and creep: Comparison between a power-law model and Kuhnen's model. Physica B: Condensed Matter, 2016, 486, 2-6. | 1.3 | 5 |
| 82 | Coexistence of attractors in an oscillator based on hysteresis. , 0, , . | | 4 |
| 83 | PWL approximation of the Hindmarsh-Rose neuron model in view of its circuit implementation. , 2007, , . | | 4 |
| 84 | Piecewise linear approximations of multivariate functions: A multiresolution-based compression algorithm suitable for circuit implementation. Applied Numerical Mathematics, 2010, 60, 924-933. | 1.2 | 4 |
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| 87 | Low-power wireless accelerometer-based system for wear detection of bandsaw blades. , 2013, , . | | 4 |
| 88 | Low-complexity piecewise-affine virtual sensors: theory and design. International Journal of Control, 2014, 87, 622-632. | 1.2 | 4 |
| 89 | Efficient transient noise analysis of non-periodic mixed analogue/digital circuits. IET Circuits, Devices and Systems, 2015, 9, 73-80. | 0.9 | 4 |
| 90 | A method for defining analog circuits for the minimization of discrete functionals: An image processing application. Circuits, Systems, and Signal Processing, 1999, 18, 457-477. | 1.2 | 3 |

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| 91 | PWL approximation of nonlinear dynamical systems, part II: identification issues. Journal of Physics: Conference Series, 2005, 22, 30-42. | 0.3 | 3 |
| 92 | Multiresolution PWL approximations. , 0, , . | | 3 |
| 93 | A cellular non-linear network for image fusion based on data regularization. International Journal of Circuit Theory and Applications, 2006, 34, 533-546. | 1.3 | 3 |
| 94 | On the complexity of periodic and nonperiodic behaviors of a hysteresis-based electronic oscillator. Chaos, 2007, 17, 043108. | 1.0 | 3 |
| 95 | Synchronization properties in networks of Hindmarsh-Rose neurons and their PWL approximations with linear symmetric coupling. , 2009, , . | | 3 |
| 96 | Explicit hybrid model predictive control: discontinuous piecewise-affine approximation and FPGA implementation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 1350-1355. | 0.4 | 3 |
| 97 | Barriers to transport induced by periodic oscillations in a physical model of the human vitreous chamber. Physical Review E, 2011, 83, 036311. | 0.8 | 3 |
| 98 | Effects of numerical noise floor on the accuracy of time domain noise analysis in circuit simulators. , 2013, , . | | 3 |
| 99 | Low-cost acquisition method for on-line inductor characterization in switched power converters. , 2017, , . | | 3 |
| 100 | Application of a low-cost piezoelectric displacement estimation technique based on laser interferometry for hysteresis open-loop compensation in an AFM scanner. Physica B: Condensed Matter, 2018, 549, 43-46. | 1.3 | 3 |
| 101 | Modeling and compensation of hysteresis and creep: The HysTool toolbox. , 2018, , . | | 3 |
| 102 | A low-cost online estimator for switch-mode power supplies with saturating ferrite-core inductors. , 2019, , . | | 3 |
| 103 | Embedded Linear Model Predictive Control Through Mesh Adaptive Direct Search Algorithm. , 2019, , . | | 3 |
| 104 | An Algorithm for Finding Equitable Clusters in Multi-Layer Networks. , 2020, , . | | 3 |
| 105 | Dipole monolayer behaviour in the presence of electrodes. Journal of Electrostatics, 1996, 37, 95-120. | 1.0 | 2 |
| 106 | Two-Port Ideal Power Transferitors: A Unified Introduction to Ideal Transformer and Gyrator. IEEE Transactions on Circuits and Systems Part 2: Express Briefs, 2004, 51, 426-429. | 2.3 | 2 |
| 107 | A CNN for biomedical image processing. , 0, , . | | 2 |
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| 109 | Piecewise-linear approximation of the Hindmarsh-Rose neuron model. Journal of Physics: Conference Series, 2008, 138, 012011. | 0.3 | 2 |
| 110 | Design and circuit implementation of approximate switched MPC. , 2013, , . | | 2 |
| 111 | A low-complexity circuit model of hysteresis. , 2015, , . | | 2 |
| 112 | bal: A library for the brute-force analysis of dynamical systems. Computer Physics Communications, 2016, 201, 126-134. | 3.0 | 2 |
| 113 | High-speed explicit nonlinear model predictive control. , 2017, , . | | 2 |
| 114 | Design of Minimal Synthetic Circuits with Sensory Feedback for Quadruped Locomotion. , 2018, , . | | 2 |
| 115 | Pareto-optimal selection of saturating inductors in the design of Switch-Mode Power Supplies. , 2019, , . | | 2 |
| 116 | Structurally Stable PWL Approximation of Nonlinear Dynamical Systems Admitting Limit Cycles: An Example. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2006, E89-A, 2759-2766. | 0.2 | 2 |
| 117 | Towards more biologically plausible central-pattern-generator models. Physical Review E, 2021, 104, 064405. | 0.8 | 2 |
| 118 | Dipole monolayers: a model for elementary information processors. , 0, , . | | 1 |
| 119 | 2-D bifurcation diagram of an oscillator based on PWL hysteresis. , 0, , . | | 1 |
| 120 | Towards the circuit implementation of the Hodgkin-Huxley neuron model: A PWL approach. , 0, , . | | 1 |
| 121 | Optimal receiver for ergodic chaos shift keying. , 0, , . | | 1 |
| 122 | PWL approximation of dynamical systems: an example. , 0, , . | | 1 |
| 123 | PWL identification of dynamical systems: some examples. , 0, , . | | 1 |
| 124 | BIFURCATION ANALYSIS OF A CIRCUIT-RELATED GENERALIZATION OF THE SHIPMAP. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2006, 16, 2435-2452. | 0.7 | 1 |
| 125 | DSP implementation of a low-complexity algorithm for real-time automated vessel detection in images of the fundus of the human retina. , 2007, , . | | 1 |
| 126 | Piecewise affine direct virtual sensors with Reduced Complexity. , 2012, , . | | 1 |

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| 127 | Synchronization: a tool for validating a PWL circuit that approximates the Hindmarsh-Rose neuron model. Nonlinear Theory and Its Applications IEICE, 2012, 3, 165-179. | 0.4 | 1 |
| 128 | An algorithm for automatic domain partitioning of piecewise-affine model predictive control laws. , 2013, , . | | 1 |
| 129 | A mathematical model for the vessel recruitment in coronary microcirculation in the absence of active autoregulation. Microvascular Research, 2016, 104, 38-45. | 1.1 | 1 |
| 130 | Linear and Nonlinear Circuits: Basic and Advanced Concepts. Lecture Notes in Electrical Engineering, 2020, , . | 0.3 | 1 |
| 131 | Effects of Parameter Variation on the Accuracy of a Nonlinear Inductor Model for Switch-Mode Power Supplies Applications. , 2020, , . | | 1 |
| 132 | Delays induced cluster synchronization in chaotic networks. Chaos, 2020, 30, 121105. | 1.0 | 1 |
| 133 | MRF-CNN: a nonlinear analog circuit for piecewise constant image synthesis. , 0, , . | | 0 |
| 134 | Circuital Markov random fields for analog edge detection. , 0, , . | | 0 |
| 135 | Boundary cells in cellular circuits for the minimisation of continuous functionals. , 0, , . | | 0 |
| 136 | A procedure for the piecewise-linear approximation of the resistive part of a cellular nonlinear network. , 0, , . | | 0 |
| 137 | CLASSIFICATION OF CHAOTIC SEQUENCES WITH OPEN-LOOP ESTIMATOR â€" OPTIMAL DESIGN FOR NOISY ENVIRONMENTS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2004, 14, 3023-3043. | 0.7 | 0 |
| 138 | Bifurcation analysis of a circuit-related piecewise-affine map. , 0, , . | | 0 |
| 139 | SVDâ€"based approximations of bivariate functions. , 0, , . | | 0 |
| 140 | Complex links between codimension-2 bifurcations in an electronic oscillator based on hysteresis. Journal of Physics: Conference Series, 2006, 55, 12-27. | 0.3 | 0 |
| 141 | Experimental validation of the bifurcation analysis of a hysteresis oscillator. , 0, , . | | 0 |
| 142 | Bifurcation analysis of a second-order impact model for forest fire prediction through a 1D-map. , 0, , . | | 0 |
| 143 | Digital architectures implementing piecewise-affine functions: An overview. , 2010, , . | | 0 |
| 144 | A circuit model for open-loop compensation of hysteresis. , 2016, , . | | 0 |

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| 145 | Phase analysis method for burst onset prediction. Physical Review E, 2017, 95, 022412. | 0.8 | 0 |
| 146 | Digital Architecture to Realize Programmable Central Pattern Generators Producing Multiple Gaits. , 2019, , . | | 0 |
| 147 | A Toolchain for Open-Loop Compensation of Hysteresis and Creep in Atomic Force Microscopes. , 2019, , . | | 0 |
| 148 | Electric Control of Molecular Dipoles: A Paradigm for Information Processing. , 1999, , 93-96. | | 0 |
| 149 | Advanced Concepts: Analysis of Nonlinear Oscillators. Lecture Notes in Electrical Engineering, 2020, , 401-473. | 0.3 | 0 |