

Yu Kawano

List of Publications by Year in descending order

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Version: 2024-02-01

95
papers

704
citations

623734

14
h-index

752698

20
g-index

95
all docs

95
docs citations

95
times ranked

411
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Reduction of Second-Order Network Systems With Structure Preservation. IEEE Transactions on Automatic Control, 2017, 62, 5026-5038. | 5.7 | 38 |
| 2 | Neural Network-Based Adaptive Control for Spacecraft Under Actuator Failures and Input Saturations. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 3696-3710. | 11.3 | 33 |
| 3 | Aging Effect of a Cu(In,Ga)(S,Se) ₂ Absorber on the Photovoltaic Performance of Its Cd-Free Solar Cell Fabricated by an All-Dry Process: Its Carrier Recombination Analysis. Advanced Energy Materials, 2019, 9, 1902869. | 19.5 | 26 |
| 4 | Robust Passivity-Based Control of Boost Converters in DC Microgrids, 2019, , . | | 25 |
| 5 | Characteristics of Zn _{1-x} Mg _x O:B and its application as transparent conductive oxide layer in Cu(In,Ga)(S,Se) ₂ solar cells with and without CdS buffer layer. Solar Energy, 2019, 184, 553-560. | 6.1 | 24 |
| 6 | Design of Privacy-Preserving Dynamic Controllers. IEEE Transactions on Automatic Control, 2020, 65, 3863-3878. | 5.7 | 24 |
| 7 | Examination of Relationship between Urbach Energy and Open-Circuit Voltage Deficit of Flexible Cu(In,Ga)Se ₂ Solar Cell for Its Improved Photovoltaic Performance. ACS Applied Energy Materials, 2019, 2, 7843-7849. | 5.1 | 22 |
| 8 | Observability at an initial state for polynomial systems. Automatica, 2013, 49, 1126-1136. | 5.0 | 20 |
| 9 | Krasovskii and Shifted Passivity-Based Control. IEEE Transactions on Automatic Control, 2021, 66, 4926-4932. | 5.7 | 20 |
| 10 | Application of Al-Doped (Zn, Mg)O on pure-sulfide Cu(In, Ga)S ₂ solar cells for enhancement of open-circuit voltage. Solar Energy Materials and Solar Cells, 2019, 202, 110157. | 6.2 | 19 |
| 11 | Graph structure-preserving model reduction of linear network systems. , 2016, , . | | 18 |
| 12 | Model Reduction by Differential Balancing Based on Nonlinear Hankel Operators. IEEE Transactions on Automatic Control, 2017, 62, 3293-3308. | 5.7 | 18 |
| 13 | Contraction Analysis of Monotone Systems via Separable Functions. IEEE Transactions on Automatic Control, 2020, 65, 3486-3501. | 5.7 | 17 |
| 14 | 22%-Efficient Cd-Free Cu(In,Ga)(S,Se) ₂ solar cell by all-dry process using Zn _{0.8} Mg _{0.2} O and Zn _{0.9} Mg _{0.1} O:B as buffer and transparent conductive oxide layers. Progress in Photovoltaics: Research and Applications, 2020, 28, 79-89. | 8.1 | 17 |
| 15 | Application of Two-Dimensional MoSe ₂ Atomic Layers to the Lift-Off Process for Producing Light-Weight and Flexible Bifacial Cu(In, Ga)Se ₂ Solar Cells. ACS Applied Energy Materials, 2020, 3, 9504-9508. | 5.1 | 17 |
| 16 | Transparent Electrode and Buffer Layer Combination for Reducing Carrier Recombination and Optical Loss Realizing over a 22%-Efficient Cd-Free Alkaline-Treated Cu(In,Ga)(S,Se) ₂ Solar Cell by the All-Dry Process. ACS Applied Materials & Interfaces, 2020, 12, 22298-22307. | 8.0 | 17 |
| 17 | Evolutionary Dynamics of Two Communities Under Environmental Feedback. , 2019, 3, 254-259. | | 16 |
| 18 | Model Reduction of Multiagent Systems Using Dissimilarity-Based Clustering. IEEE Transactions on Automatic Control, 2019, 64, 1663-1670. | 5.7 | 15 |

| # | ARTICLE | IF | CITATIONS |
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| 19 | Nonlinear Eigenvalue Approach to Differential Riccati Equations for Contraction Analysis. IEEE Transactions on Automatic Control, 2017, 62, 6497-6504. | 5.7 | 14 |
| 20 | PBH tests for nonlinear systems. Automatica, 2017, 80, 135-142. | 5.0 | 13 |
| 21 | Asynchronous and Time-Varying Proximal Type Dynamics in Multiagent Network Games. IEEE Transactions on Automatic Control, 2021, 66, 2861-2867. | 5.7 | 13 |
| 22 | Device design for high-performance bifacial Cu(In,Ga)Se ₂ solar cells under front and rear illuminations. Solar Energy, 2021, 218, 76-84. | 6.1 | 13 |
| 23 | Partial Phase Cohesiveness in Networks of Networks of Kuramoto Oscillators. IEEE Transactions on Automatic Control, 2021, 66, 6100-6107. | 5.7 | 12 |
| 24 | Data-Driven Model Reduction of Monotone Systems by Nonlinear DC Gains. IEEE Transactions on Automatic Control, 2020, 65, 2094-2106. | 5.7 | 10 |
| 25 | Modular control under privacy protection: Fundamental trade-offs. Automatica, 2021, 127, 109518. | 5.0 | 10 |
| 26 | Commutative algebraic methods for controllability of discrete-time polynomial systems. International Journal of Control, 2016, 89, 343-351. | 1.9 | 9 |
| 27 | Partial Phase Cohesiveness in Networks of Communitinized Kuramoto Oscillators. , 2018, , . | | 9 |
| 28 | Krasovskii's Passivity. IFAC-PapersOnLine, 2019, 52, 466-471. | 0.9 | 9 |
| 29 | Accessibility and System Reduction of Nonlinear Time-Delay Control Systems. IEEE Transactions on Automatic Control, 2021, 66, 3781-3788. | 5.7 | 9 |
| 30 | Observability Analysis of Nonlinear Systems Using Pseudo-Linear Transformation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 606-611. | 0.4 | 8 |
| 31 | Stability of Remote Synchronization in Star Networks of Kuramoto Oscillators. , 2018, , . | | 8 |
| 32 | Interfacial modification mechanism by aging effect for high-performance Cd-free and all-dry process Cu(In,Ga)(S,Se) ₂ solar cells. Applied Physics Letters, 2020, 117, . | 3.3 | 8 |
| 33 | Stability criteria with nonlinear eigenvalues for diagonalizable nonlinear systems. Systems and Control Letters, 2015, 86, 41-47. | 2.3 | 7 |
| 34 | Model reduction of second-order network systems using graph clustering. , 2016, , . | | 7 |
| 35 | Silver-alloyed wide-gap CuGaSe ₂ solar cells. Solar Energy, 2021, 230, 509-514. | 6.1 | 7 |
| 36 | Simple Sufficient Conditions for Reachability of Discrete-Time Polynomial Systems. IEEE Transactions on Automatic Control, 2013, 58, 3203-3206. | 5.7 | 6 |

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| 37 | Sufficiency of a necessary condition for local observability of discrete-time polynomial systems. , 2013, , . | | 6 |
| 38 | Observability Conditions by Polynomial Ideals. Asian Journal of Control, 2017, 19, 821-831. | 3.0 | 6 |
| 39 | Empirical Differential Balancing for Nonlinear Systems. IFAC-PapersOnLine, 2017, 50, 6326-6331. | 0.9 | 6 |
| 40 | Structure Preserving Truncation of Nonlinear Port Hamiltonian Systems. IEEE Transactions on Automatic Control, 2018, 63, 4286-4293. | 5.7 | 6 |
| 41 | Controller Reduction for Nonlinear Systems by Generalized Differential Balancing. IEEE Transactions on Automatic Control, 2022, 67, 5856-5871. | 5.7 | 6 |
| 42 | Formation of Native In _x (O,S) _y Buffer through Surface Oxidation of Cu(In,Ga)(S,Se) ₂ Absorber for Significantly Enhanced Conversion Efficiency of Flexible and Cd-Free Solar Cell by All-Dry Process. Solar Rrl, 2022, 6, . | 5.8 | 6 |
| 43 | Global Observability of Discrete-Time Polynomial Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 203-207. | 0.4 | 5 |
| 44 | Structural Accessibility and Its Applications to Complex Networks Governed by Nonlinear Balance Equations. IEEE Transactions on Automatic Control, 2019, 64, 4607-4614. | 5.7 | 5 |
| 45 | Mg Content Impact of a Sputtered Zn _x Mg _x O:Al Transparent Electrode on Photovoltaic Performances of Flexible, Cd-Free, and All-Dry-Process Cu(In,Ga)(S,Se) ₂ Solar Cells. ACS Applied Energy Materials, 2022, 5, 2270-2278. | 5.1 | 5 |
| 46 | Derived Conduction Band Offset by Photoelectron Yield Spectroscopy and Its Quantitative Number for Efficiency Enhancement of Flexible, Cd-Free, and All-Dry Process Zn _x Mg _x O:Al/Zn _x Mg _x O/Cu(In,Ga)(S,Se) ₂ Solar Cells. ACS Applied Electronic Materials, 2022, 4, 2077-2085. | 4.3 | 5 |
| 47 | On differential balancing: Energy functions and balanced realization. , 2015, , . | | 4 |
| 48 | On Integrability of Observable Space for Discrete-Time Polynomial Control Systems. IEEE Transactions on Automatic Control, 2015, 60, 1987-1991. | 5.7 | 4 |
| 49 | Revisit Input Observability: A New Approach to Attack Detection and Privacy Preservation. , 2018, , . | | 4 |
| 50 | Balanced Model Reduction for Linear Time-Varying Symmetric Systems. IEEE Transactions on Automatic Control, 2019, 64, 3060-3067. | 5.7 | 4 |
| 51 | Converse stability theorems for positive linear time-varying systems. Automatica, 2020, 122, 109193. | 5.0 | 4 |
| 52 | Empirical differential Gramians for nonlinear model reduction. Automatica, 2021, 127, 109534. | 5.0 | 4 |
| 53 | Effect of an Ohmic back contact on the stability of Cu(In,Ga)Se ₂ -based flexible bifacial solar cells. Applied Physics Letters, 2021, 119, . | 3.3 | 4 |
| 54 | Model Reduction by Generalized Differential Balancing. Lecture Notes in Control and Information Sciences, 2015, , 349-362. | 1.0 | 4 |

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|----|--|-----|-----------|
| 55 | Gaussian distribution of average photon energy and spectral gain and loss of several-type photovoltaic modules at different outdoor sites around the world. Optics Communications, 2022, 505, 127516. | 2.1 | 4 |
| 56 | Necessary condition for local observability of discrete-time polynomial systems. , 2012, , . | | 3 |
| 57 | Algebraic Solutions to the Hamilton-Jacobi Equation with the Time-Varying Hamiltonian. SICE Journal of Control Measurement and System Integration, 2013, 6, 28-37. | 0.7 | 3 |
| 58 | Polynomial accessibility condition for the multi-input multi-output nonlinear control system. Proceedings of the Estonian Academy of Sciences, 2014, 63, 136. | 1.5 | 3 |
| 59 | Algebraic Approach to Nonlinear Optimal Control Problems with Terminal Constraints: Sufficient Conditions for Existence of Algebraic Solutions. SICE Journal of Control Measurement and System Integration, 2018, 11, 198-206. | 0.7 | 3 |
| 60 | Differential Privacy and Qualitative Privacy Analysis for Nonlinear Dynamical Systems. IFAC-PapersOnLine, 2018, 51, 52-57. | 0.9 | 3 |
| 61 | Design of Intermittent Control for Cortisol Secretion Under Time-Varying Demand and Holding Cost Constraints. IEEE Transactions on Biomedical Engineering, 2020, 67, 556-564. | 4.2 | 3 |
| 62 | Partial Exponential Stability Analysis of Slow-Fast Systems via Periodic Averaging. IEEE Transactions on Automatic Control, 2022, 67, 5479-5486. | 5.7 | 3 |
| 63 | Load frequency control by integrating real-time price presentations for consumers and direct commands issued to generators and batteries. , 2016, , . | | 3 |
| 64 | Realization of a nonlinear system in the feedforward form: a polynomial approach. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 9480-9485. | 0.4 | 2 |
| 65 | Sufficient condition for minimal realization of incrementally stable nonlinear systems based on differential energy functions. , 2015, , . | | 2 |
| 66 | Single-experiment observability decomposition of discrete-time analytic systems. Systems and Control Letters, 2016, 97, 193-199. | 2.3 | 2 |
| 67 | Algebraic approach to nonlinear finite-horizon optimal control problems with terminal constraints. , 2017, , . | | 2 |
| 68 | Structural observability and sensor node selection for complex networks governed by nonlinear balance equations. , 2017, , . | | 2 |
| 69 | Algebraic approach to nonlinear finite-horizon optimal control problems of discrete-time systems with terminal constraints. , 2017, , . | | 2 |
| 70 | Towards Time-Varying Proximal Dynamics in Multi-Agent Network Games. , 2018, , . | | 2 |
| 71 | Adaptive Failure-Tolerant Control for Spacecraft Attitude Tracking. IFAC-PapersOnLine, 2019, 52, 67-72. | 0.9 | 2 |
| 72 | Input-Output Linearization for Transfer Functions of Input-Affine Meromorphic Systems. SICE Journal of Control Measurement and System Integration, 2012, 5, 133-138. | 0.7 | 2 |

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|----|---|-----|-----------|
| 73 | Real-time Pricing with Consumers Estimation by a Particle Filter. Transactions of the Society of Instrument and Control Engineers, 2017, 53, 463-472. | 0.2 | 2 |
| 74 | An Algebraic Approach to Local Observability at an Initial State for Discrete-Time Polynomial Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 6449-6453. | 0.4 | 1 |
| 75 | On integrability of observable space for discrete-time analytic systems. , 2015, , . | | 1 |
| 76 | Generalized Differential Balancing for Variationally Symmetric Systems. IFAC-PapersOnLine, 2016, 49, 844-849. | 0.9 | 1 |
| 77 | Real-time price optimization for load frequency control in electric power systems with wind farms. , 2016, , . | | 1 |
| 78 | Any dynamical system is fully accessible through one single actuator and related problems. International Journal of Robust and Nonlinear Control, 2016, 26, 1748-1754. | 3.7 | 1 |
| 79 | Path-Based Stability Analysis for Monotone Control Systems on Proper Cones. IEEE Transactions on Automatic Control, 2022, 67, 5517-5524. | 5.7 | 1 |
| 80 | A Fundamental Performance Limit of Cloud-based Control in Terms of Differential Privacy Level. IFAC-PapersOnLine, 2020, 53, 11018-11023. | 0.9 | 1 |
| 81 | Effects of Quantization and Dithering in Privacy Analysis for a Networked Control System. , 2021, , . | | 1 |
| 82 | Tunableâ€œConductionâ€œBand Inâ€œZnâ€œOâ€œbased Transparent Conductive Oxide Deposited at Room Temperature. Physica Status Solidi (A) Applications and Materials Science, 0, , . | 1.8 | 1 |
| 83 | Position Influence of Sputtered Zn_{1-x}Mg_x/O/Zn_{1-x}Mg_x/O:Al Layers in Flexible and Cd-Free Cu(In,Ga)(S,Se)₂ Solar Cells. ACS Applied Materials & Interfaces, 0, , . | 8.0 | 1 |
| 84 | An algebraic solution method for the unsteady Hamilton-Jacobi equation. , 2011, , . | | 0 |
| 85 | Algebraic Properties of Transfer Function Matrices for Meromorphic Nonlinear Time-Varying Systems. Transactions of the Institute of Systems Control and Information Engineers, 2013, 26, 185-192. | 0.1 | 0 |
| 86 | On differential input-to-state stability. , 2016, , . | | 0 |
| 87 | Algebraic geometric approach to output dead-beat controllability of discrete-time polynomial systems. Nonlinear Theory and Its Applications IEICE, 2016, 7, 460-467. | 0.6 | 0 |
| 88 | Realizations in feedforward forms of nonlinear inputâ€œoutput equations with timeâ€œdelays. International Journal of Robust and Nonlinear Control, 2020, 30, 7560-7573. | 3.7 | 0 |
| 89 | Peeling Technique by Two-Dimensional MoSe2 Atomic Layer for Bifacial-Flexible Cu(In, Ga)Se2 solar cells. , 2021, , . | | 0 |
| 90 | Privacy protection with heavy-tailed noise for linear dynamical systems. Automatica, 2021, 131, 109732. | 5.0 | 0 |

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| 91 | Scalable Control Design for K-positive Linear Systems. IFAC-PapersOnLine, 2021, 54, 84-89. | 0.9 | 0 |
| 92 | Global Observability of Input-affine Polynomial Systems. Transactions of the Society of Instrument and Control Engineers, 2010, 46, 353-355. | 0.2 | 0 |
| 93 | Sufficient Condition for Global Observability Decomposition of Polynomial Systems. SICE Journal of Control Measurement and System Integration, 2015, 8, 228-233. | 0.7 | 0 |
| 94 | Resolving Discrepancies in Problem Formulations for Electricity Pricing by Control Engineers and Economists. , 2020, , 59-78. | | 0 |
| 95 | Real-Time Pricing for Electric Power Systems by Nonlinear Model Predictive Control. , 2020, , 245-277. | | 0 |