Siddhartha Sen

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Experimental studies on realization of fractional inductors and fractionalâ€order bandpass filters. International Journal of Circuit Theory and Applications, 2015, 43, 1183-1196.	1.3	147
2	Practical Realization of Tunable Fractional Order Parallel Resonator and Fractional Order Filters. IEEE Transactions on Circuits and Systems I: Regular Papers, 2016, 63, 1142-1151.	3.5	110
3	A Design Example of a Fractional-Order Kerwin–Huelsman–Newcomb Biquad Filter with Two Fractional Capacitors of Different Order. Circuits, Systems, and Signal Processing, 2013, 32, 1523-1536.	1.2	73
4	Stability bounds of singularity perturbed systems. IEEE Transactions on Automatic Control, 1993, 38, 302-304.	3.6	65
5	Optimal Design for Realizing a Grounded Fractional Order Inductor Using GIC. IEEE Transactions on Circuits and Systems I: Regular Papers, 2018, 65, 2411-2421.	3.5	59
6	A constant phase element sensor for monitoring microbial growth. Sensors and Actuators B: Chemical, 2006, 119, 186-191.	4.0	55
7	Design and performance study of phaseâ€locked loop using fractionalâ€order loop filter. International Journal of Circuit Theory and Applications, 2015, 43, 776-792.	1.3	53
8	Free final time fractional optimal control problems. Journal of the Franklin Institute, 2014, 351, 941-951.	1.9	42
9	Realization of a carbon nanotube based electrochemical fractor. , 2015, , .		42
10	Modeling of a capacitive probe in a polarizable medium. Sensors and Actuators A: Physical, 2005, 120, 115-122.	2.0	35
11	Robust and fault tolerant controller for attitude control of a satellite launch vehicle. IET Control Theory and Applications, 2007, 1, 304-312.	1.2	34
12	Dynamic Control Allocation for Tracking Time-Varying Control Demand. Journal of Guidance, Control, and Dynamics, 2008, 31, 1150-1157.	1.6	33
13	Design of static <mml:math <br="" altimg="si43.gif" xmlns:mml="http://www.w3.org/1998/Math/MathML">display="inline" overflow="scroll"><mml:msub><mml:mrow><mml:mi>H</mml:mi></mml:mrow><mml:mrow><mml:mi>â^ž<td>ml:ñiß<td>ıml:mrow></td></td></mml:mi></mml:mrow></mml:msub></mml:math>	ml:ñiß <td>ıml:mrow></td>	ıml:mrow>
14	CTLA-4 Blockade Plus Adoptive T-Cell Transfer Promotes Optimal Melanoma Immunity in Mice. Journal of Immunotherapy, 2015, 38, 54-61.	1.2	31
15	Design and Hardware Realization of a Tunable Fractional-Order Series Resonator with High Quality Factor. Circuits, Systems, and Signal Processing, 2017, 36, 3457-3476.	1.2	30
16	Design of an SOI-MEMS high resolution capacitive type single axis accelerometer. Microsystem Technologies, 2010, 16, 2057-2066.	1.2	29
17	Fractional Optimal Control Problems With Specified Final Time. Journal of Computational and Nonlinear Dynamics, 2011, 6, .	0.7	27
18	A Differential Output Interfacing ASIC for Integrated Capacitive Sensors. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 196-203.	2.4	26

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19	Tunable Square-Wave Generator for Integrated Sensor Applications. IEEE Transactions on Instrumentation and Measurement, 2011, 60, 3369-3375.	2.4	22
20	Linearity improvement of source degenerated transconductance amplifiers. Analog Integrated Circuits and Signal Processing, 2013, 74, 399-407.	0.9	22
21	Control allocation for an over-actuated Satellite Launch Vehicle. Aerospace Science and Technology, 2013, 28, 56-71.	2.5	22
22	Reconfigurable Direct Allocation for Multiple Actuator Failures. IEEE Transactions on Control Systems Technology, 2015, 23, 397-405.	3.2	22
23	MEMS Capacitive Accelerometers. Sensor Letters, 2007, 5, 471-484.	0.4	22
24	Systematic Development of Integrated Capacitance Measurement System With Sensitivity Tuning. IEEE Transactions on Instrumentation and Measurement, 2015, 64, 2738-2746.	2.4	19
25	Absolute stability analysis for negative-imaginary systems. Automatica, 2016, 67, 107-113.	3.0	19
26	A highly linear CMOS transconductance amplifier in 180Ânm process technology. Analog Integrated Circuits and Signal Processing, 2012, 72, 163-171.	0.9	15
27	Modelling and performance improvement of phase-angle-based conductivity sensor. , 2016, , .		15
28	Effect of Initialization on a Class of Fractional Order Systems: Experimental Verification and Dependence on Nature of Past History and System Parameters. Circuits, Systems, and Signal Processing, 2013, 32, 1501-1522.	1.2	14
29	Enhanced local and systemic anti-melanoma CD8+ T cell responses after memory T cell-based adoptive immunotherapy in mice. Cancer Immunology, Immunotherapy, 2016, 65, 601-611.	2.0	13
30	Design and performance evaluation of two novel linearisation circuits for giant magnetoâ€resistance based sensors. IET Circuits, Devices and Systems, 2017, 11, 496-503.	0.9	13
31	Simple linearising frontâ€endâ€eircuit for giant magnetoâ€resistance sensors. Electronics Letters, 2018, 54, 81-83.	0.5	13
32	Integral Control of Stable Negative-Imaginary Systems Preceded by Hysteresis Nonlinearity. IEEE Transactions on Automatic Control, 2020, 65, 1333-1339.	3.6	13
33	Disturbance Rejection and Control Allocation of Over-Actuated systems H. , 2006, , .		12
34	Numerical Method for Solving Fractional Optimal Control Problems. , 2009, , .		12
35	Realization and study of a fractional order resonator using an obtuse angle fractor. , 2016, , .		12
36	Impedance Behaviour of a Microporous PMMA-Film â€~Coated Constant Phase Element' based Chemical Sensor. International Journal on Smart Sensing and Intelligent Systems, 2008, 1, 922-939.	0.4	12

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37	PC-based gas-solids two-phase mass flowmeter for pneumatically conveying systems. Flow Measurement and Instrumentation, 2000, 11, 205-212.	1.0	10
38	An object-based coding scheme for frontal surface of defective fluted ingot. ISA Transactions, 2006, 45, 1-8.	3.1	10
39	Co-transfer of tumor-specific effector and memory CD8+ T cells enhances the efficacy of adoptive melanoma immunotherapy in a mouse model. , 2018, 6, 41.		10
40	New control allocation algorithms in fixed point framework for overactuated systems with actuator saturation. International Journal of Control, 2017, 90, 348-356.	1.2	9
41	A Novel Design for Enhancing the Sensitivity of a Capacitive MEMS Device. Journal of Microelectromechanical Systems, 2018, 27, 656-666.	1.7	9
42	Fractional calculus in electronic circuits: a review. , 2022, , 441-482.		9
43	Stability analysis and controller design for Lur'e system with hysteresis nonlinearities: aÂnegative-imaginary theory based approach. International Journal of Control, 2019, 92, 1903-1913.	1.2	8
44	Finite-difference resistance modelling for liquid level measurement in stratified gas-liquid systems. Measurement Science and Technology, 1994, 5, 574-579.	1.4	7
45	Fractional Optimal Control Within Caputo's Derivative. , 2011, , .		7
46	Testing of MEMS capacitive accelerometer structure through electro-static actuation. Microsystem Technologies, 2013, 19, 79-87.	1.2	7
47	A new analysis of reciprocated beam bending in electrostatic comb drives using a semi-analytical approach. Communications in Nonlinear Science and Numerical Simulation, 2014, 19, 2115-2130.	1.7	7
48	Dynamic characteristics of voltage induced reciprocated bending in double cantilever configuration of asymmetric comb drive MEMS. Microsystem Technologies, 2016, 22, 1089-1103.	1.2	7
49	Generalized closed form approximations for pull-in characteristics of fixed-fixed nano beam under the influences of van der Waals and Casimir forces. Microelectronics Reliability, 2019, 94, 32-40.	0.9	7
50	An improved method for determining the stability of interval matrices. International Journal of Systems Science, 2000, 31, 171-176.	3.7	6
51	An experimental analysis of electrostatically vibrated array of polysilicon cantilevers. Microsystem Technologies, 2010, 16, 2131-2145.	1.2	6
52	Effect of voltage induced electrostatic forces on MEMS capacitive accelerometer. , 2011, , .		6
53	Study and analysis of two GMR-based eddy-current probes for defect-detection. , 2017, , .		6
54	Generalized closed form solutions for feasible dimension limit and pull-in characteristics of nanocantilever under the Influences of van der Waals and Casimir forces. Materials Research Express, 2018, 5, 045028.	0.8	6

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55	Analysis of static charge induced pull-in of an electrostatic MEMS. Communications in Nonlinear Science and Numerical Simulation, 2021, 96, 105690.	1.7	6
56	Pre-compensator selection for H â^ž loop shaping control. International Journal of Control, Automation and Systems, 2010, 8, 45-51.	1.6	5
57	A linear matrix inequality approach to parametric Hâ^ž loop shaping control. Journal of the Franklin Institute, 2011, 348, 1832-1846.	1.9	5
58	Local stabilisation of uncertain linear time-invariant plant with bounded control inputs: parametric Hâ^ž loop-shaping approach. IET Control Theory and Applications, 2012, 6, 1567.	1.2	5
59	A simple low cost scheme for closed loop operation of MEMS capacitive accelerometer. , 2014, , .		5
60	Introducing Fractional-Order Dynamics to Sigma–Delta Modulators. Circuits, Systems, and Signal Processing, 2016, 35, 2109-2124.	1.2	5
61	Performance evaluation of perforated micro-cantilevers for MEMS applications. Journal of Micro/ Nanolithography, MEMS, and MOEMS, 2014, 13, 1.	1.0	4
62	A New Analysis on Reduction of Undesired Beam Bending in Electrostatic Comb Drive MEMS Actuator. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 488-500.	2.4	4
63	Optimal design of a fractional order immittance in the second quadrant with wide CPZ. AEU - International Journal of Electronics and Communications, 2021, 130, 153567.	1.7	4
64	Linearized Sigma–Delta-Based Direct Digital Converter for GMR Sensors. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.	2.4	4
65	Singular perturbation method for the transient analysis of a transformer. Electric Power Systems Research, 1982, 5, 307-313.	2.1	3
66	Time-optimal control algorithm for two-time-scale discrete system. International Journal of Control, 1988, 47, 1595-1602.	1.2	3
67	Fault tolerant controller for attitude control of satellite launch vehicle via LMI approach. , 0, , .		3
68	On-Chip Implementation of Analog Linearization Schemes for Giant-Magnetoresistance Sensors. , 2018, , .		3
69	Image-based classification of defects in frontal surface of fluted ingot. Measurement: Journal of the International Measurement Confederation, 2007, 40, 687-698.	2.5	2
70	Robust control of uncertain LTI plant with input saturation constraint: <i>H</i> _{â^ž} loop-shaping approach. International Journal of Systems Science, 2010, 41, 1337-1351.	3.7	2
71	A new approach for sensitivity improvement of MEMS capacitive accelerometer using electrostatic actuation. , 2012, , .		2
72	A reconfigurable Direct Control Allocation method. , 2013, , .		2

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73	Generalized closed form approximations for pull-in characteristics of electrostatic nanotweezers under the influences of van der waals and casimir forces. , 2015, , .		2
74	Tracking control for systems with slopeâ€restricted hysteresis nonlinearities. International Journal of Robust and Nonlinear Control, 2018, 28, 6038-6052.	2.1	2
75	A novel shape-based coding-decoding technique for an industrial visual inspection system. ISA Transactions, 2004, 43, 3-12.	3.1	1
76	Disturbance Observer Based Performance Improvement of H <inf>∞</inf> Controller. , 2008, , .		1
77	Development and Application of Wire Mesh Tomography for Gas-Liquid Systems. AlP Conference Proceedings, 2008, , .	0.3	1
78	Design methodology of closed loop MEMS capacitive accelerometers based on ΣΔ modulation technique. , 2016, , .		1
79	A Control Theoretic Approach for Solving Underdetermined Problems and Its Application to Control Allocation. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2016, 138, .	0.9	1
80	Efficacy Studies of a Novel Field Feedback Circuit for Giant Magnetoresistance Sensors. , 2018, , .		1
81	A structure preserving model order reduction method for calcium homeostatic system. Mathematical Biosciences, 2019, 312, 8-22.	0.9	1
82	A Versatile Direct-Digital Interface for Resistive Sensors Using Sigma-Delta Approach. , 2021, , .		1
83	On-chip implementation of different analog linearization schemes for giant-magnetoresistance sensors with a comparative study. AEU - International Journal of Electronics and Communications, 2021, 139, 153903.	1.7	1
84	Design of SOI MEMS-based Bennet's doubler kinetic energy harvester. Journal of Micro/ Nanolithography, MEMS, and MOEMS, 2020, 19, 1.	1.0	1
85	Study on dynamic actuation in double microcantilever-based electrostatic microactuators with an in-house experimental set-up. Journal of Micro/ Nanolithography, MEMS, and MOEMS, 2018, 17, 1.	1.0	1
86	Singular perturbation analysis of discrete cheap control problems. International Journal of Systems Science, 1992, 23, 57-70.	3.7	0
87	Analysis of Linear Systems with Input Saturation and Model Uncertainty: An LMI Approach. , 2006, , .		Ο
88	An RF based centrifuge calibrator for MEMS accelerometer testing. , 2010, , .		0
89	SOI MEMS Based Over-Sampling Accelerometer Design with î"Σ Output. Lecture Notes in Computer Science, 2012, , 121-128.	1.0	0
90	Disturbance attenuation problem for overactuated systems with actuator saturation: A control allocation based approach. , 2015, , .		0

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91	Design, integration and performance analysis of Î \pounds Δ ADC for capacitive sensor interfacing. , 2016, , .		Ο
92	Analysis of Tilt-Able Inertial Mass with Asymmetric Springs for Inter-Digitated Electrodes. , 2018, , .		0
93	A Closed-loop CMOS Interface for $\hat{A}\pm 1g$ MEMS Capacitive Accelerometer. , 2018, , .		Ο
94	Effect of past History on Transient Response of a Closed Loop System with Fractional PI Controller. , 2018, , .		0
95	A Semi-Analytical Method for Modelling of EC Probes for Detection of Thin Defects in Metals. , 2021, , .		0