

Siddhartha Sen

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

83

papers

1,103

citations

19

h-index

30

g-index

96

ext. papers

1,327

ext. citations

2.8

avg, IF

4.8

L-index

#	Paper	IF	Citations
83	Fractional calculus in electronic circuits: a review 2022 , 441-482		0
82	Analysis of static charge induced pull-in of an electrostatic MEMS. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2021 , 96, 105690	3.7	0
81	Optimal design of a fractional order immittance in the second quadrant with wide CPZ. <i>AEU - International Journal of Electronics and Communications</i> , 2021 , 130, 153567	2.8	0
80	. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021 , 70, 1-10	5.2	1
79	On-chip implementation of different analog linearization schemes for giant-magnetoresistance sensors with a comparative study. <i>AEU - International Journal of Electronics and Communications</i> , 2021 , 139, 153903	2.8	0
78	Design of SOI MEMS-based Bennet's doubler kinetic energy harvester. <i>Journal of Micro/Nanolithography, MEMS, and MOEMS</i> , 2020 , 19, 1	0.7	1
77	A New Analysis on Reduction of Undesired Beam Bending in Electrostatic Comb Drive MEMS Actuator. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020 , 69, 488-500	5.2	2
76	Integral Control of Stable Negative-Imaginary Systems Preceded by Hysteresis Nonlinearity. <i>IEEE Transactions on Automatic Control</i> , 2020 , 65, 1333-1339	5.9	5
75	A structure preserving model order reduction method for calcium homeostatic system. <i>Mathematical Biosciences</i> , 2019 , 312, 8-22	3.9	1
74	Generalized closed form approximations for pull-in characteristics of fixed-fixed nano beam under the influences of van der Waals and Casimir forces. <i>Microelectronics Reliability</i> , 2019 , 94, 32-40	1.2	3
73	Stability analysis and controller design for Lur'e system with hysteresis nonlinearities: a negative-imaginary theory based approach. <i>International Journal of Control</i> , 2019 , 92, 1903-1913	1.5	6
72	Simple linearising front-end-circuit for giant magneto-resistance sensors. <i>Electronics Letters</i> , 2018 , 54, 81-83	1.1	12
71	Generalized closed form solutions for feasible dimension limit and pull-in characteristics of nanocantilever under the Influences of van der Waals and Casimir forces. <i>Materials Research Express</i> , 2018 , 5, 045028	1.7	3
70	Optimal Design for Realizing a Grounded Fractional Order Inductor Using GIC. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2018 , 65, 2411-2421	3.9	44
69	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		5
68	A Novel Design for Enhancing the Sensitivity of a Capacitive MEMS Device. <i>Journal of Microelectromechanical Systems</i> , 2018 , 27, 656-666	2.5	5
67	Study on dynamic actuation in double microcantilever-based electrostatic microactuators with an in-house experimental set-up. <i>Journal of Micro/Nanolithography, MEMS, and MOEMS</i> , 2018 , 17, 1	0.7	1

66	A Differential Output Interfacing ASIC for Integrated Capacitive Sensors. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2018 , 67, 196-203	5.2	16
65	On-Chip Implementation of Analog Linearization Schemes for Giant-Magnetoresistance Sensors 2018 ,		2
64	Tracking control for systems with slope-restricted hysteresis nonlinearities. <i>International Journal of Robust and Nonlinear Control</i> , 2018 , 28, 6038-6052	3.6	2
63	New control allocation algorithms in fixed point framework for overactuated systems with actuator saturation. <i>International Journal of Control</i> , 2017 , 90, 348-356	1.5	5
62	Design and Hardware Realization of a Tunable Fractional-Order Series Resonator with High Quality Factor. <i>Circuits, Systems, and Signal Processing</i> , 2017 , 36, 3457-3476	2.2	21
61	Study and analysis of two GMR-based eddy-current probes for defect-detection 2017 ,		4
60	Design and performance evaluation of two novel linearisation circuits for giant magneto-resistance based sensors. <i>IET Circuits, Devices and Systems</i> , 2017 , 11, 496-503	1.1	9
59	Dynamic characteristics of voltage induced reciprocated bending in double cantilever configuration of asymmetric comb drive MEMS. <i>Microsystem Technologies</i> , 2016 , 22, 1089-1103	1.7	5
58	Practical Realization of Tunable Fractional Order Parallel Resonator and Fractional Order Filters. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2016 , 63, 1142-1151	3.9	74
57	Enhanced local and systemic anti-melanoma CD8+ T cell responses after memory T cell-based adoptive immunotherapy in mice. <i>Cancer Immunology, Immunotherapy</i> , 2016 , 65, 601-11	7.4	11
56	A Control Theoretic Approach for Solving Underdetermined Problems and Its Application to Control Allocation. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2016 , 138,	1.6	1
55	Absolute stability analysis for negative-imaginary systems. <i>Automatica</i> , 2016 , 67, 107-113	5.7	15
54	Introducing Fractional-Order Dynamics to SigmaDelta Modulators. <i>Circuits, Systems, and Signal Processing</i> , 2016 , 35, 2109-2124	2.2	3
53	Modelling and performance improvement of phase-angle-based conductivity sensor 2016 ,		10
52	2016 ,		9
51	Realization of a carbon nanotube based electrochemical fractor 2015 ,		25
50	Ctla-4 blockade plus adoptive T-cell transfer promotes optimal melanoma immunity in mice. <i>Journal of Immunotherapy</i> , 2015 , 38, 54-61	5	28
49	Systematic Development of Integrated Capacitance Measurement System With Sensitivity Tuning. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2015 , 64, 2738-2746	5.2	13

48	Design and performance study of phase-locked loop using fractional-order loop filter. <i>International Journal of Circuit Theory and Applications</i> , 2015 , 43, 776-792	2	39
47	Experimental studies on realization of fractional inductors and fractional-order bandpass filters. <i>International Journal of Circuit Theory and Applications</i> , 2015 , 43, 1183-1196	2	108
46	Generalized closed form approximations for pull-in characteristics of electrostatic nanotweezers under the influences of van der waals and casimir forces 2015 ,		2
45	Reconfigurable Direct Allocation for Multiple Actuator Failures. <i>IEEE Transactions on Control Systems Technology</i> , 2015 , 23, 397-405	4.8	14
44	A simple low cost scheme for closed loop operation of MEMS capacitive accelerometer 2014 ,		3
43	Performance evaluation of perforated micro-cantilevers for MEMS applications. <i>Journal of Micro/Nanolithography, MEMS, and MOEMS</i> , 2014 , 13, 1	0.7	4
42	Free final time fractional optimal control problems. <i>Journal of the Franklin Institute</i> , 2014 , 351, 941-951	4	37
41	A new analysis of reciprocated beam bending in electrostatic comb drives using a semi-analytical approach. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2014 , 19, 2115-2130	3.7	5
40	A Design Example of a Fractional-Order Kerwin-Buelsman-Newcomb Biquad Filter with Two Fractional Capacitors of Different Order. <i>Circuits, Systems, and Signal Processing</i> , 2013 , 32, 1523-1536	2.2	69
39	Effect of Initialization on a Class of Fractional Order Systems: Experimental Verification and Dependence on Nature of Past History and System Parameters. <i>Circuits, Systems, and Signal Processing</i> , 2013 , 32, 1501-1522	2.2	11
38	Linearity improvement of source degenerated transconductance amplifiers. <i>Analog Integrated Circuits and Signal Processing</i> , 2013 , 74, 399-407	1.2	15
37	Control allocation for an over-actuated Satellite Launch Vehicle. <i>Aerospace Science and Technology</i> , 2013 , 28, 56-71	4.9	18
36	Testing of MEMS capacitive accelerometer structure through electro-static actuation. <i>Microsystem Technologies</i> , 2013 , 19, 79-87	1.7	5
35	A reconfigurable Direct Control Allocation method 2013 ,		1
34	Local stabilisation of uncertain linear time-invariant plant with bounded control inputs: parametric H _∞ loop-shaping approach. <i>IET Control Theory and Applications</i> , 2012 , 6, 1567	2.5	4
33	A new approach for sensitivity improvement of MEMS capacitive accelerometer using electrostatic actuation 2012 ,		2
32	SOI MEMS Based Over-Sampling Accelerometer Design with Δ Output. <i>Lecture Notes in Computer Science</i> , 2012 , 121-128	0.9	
31	A highly linear CMOS transconductance amplifier in 180 nm process technology. <i>Analog Integrated Circuits and Signal Processing</i> , 2012 , 72, 163-171	1.2	11

30	Fractional Optimal Control Problems With Specified Final Time. <i>Journal of Computational and Nonlinear Dynamics</i> , 2011 , 6,	1.4	22
29	Effect of voltage induced electrostatic forces on MEMS capacitive accelerometer 2011 ,		6
28	Fractional Optimal Control Within Caputo's Derivative 2011 ,		7
27	A linear matrix inequality approach to parametric H _∞ loop shaping control. <i>Journal of the Franklin Institute</i> , 2011 , 348, 1832-1846	4	5
26	. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2011 , 60, 3369-3375	5.2	17
25	Robust control of uncertain LTI plant with input saturation constraint: H _∞ loop-shaping approach. <i>International Journal of Systems Science</i> , 2010 , 41, 1337-1351	2.3	2
24	Design of an SOI-MEMS high resolution capacitive type single axis accelerometer. <i>Microsystem Technologies</i> , 2010 , 16, 2057-2066	1.7	24
23	An experimental analysis of electrostatically vibrated array of polysilicon cantilevers. <i>Microsystem Technologies</i> , 2010 , 16, 2131-2145	1.7	5
22	Pre-compensator selection for H _∞ loop shaping control. <i>International Journal of Control, Automation and Systems</i> , 2010 , 8, 45-51	2.9	2
21	Numerical Method for Solving Fractional Optimal Control Problems 2009 ,		12
20	Disturbance Observer Based Performance Improvement of H _∞ Controller 2008 ,		1
19	Dynamic Control Allocation for Tracking Time-Varying Control Demand. <i>Journal of Guidance, Control, and Dynamics</i> , 2008 , 31, 1150-1157	2.1	26
18	Design of static . <i>Automatica</i> , 2008 , 44, 2214-2220	5.7	22
17	Impedance Behaviour of a Microporous PMMA-Film 'Coated Constant Phase Element' based Chemical Sensor. <i>International Journal on Smart Sensing and Intelligent Systems</i> , 2008 , 1, 922-939	0.4	12
16	Image-based classification of defects in frontal surface of fluted ingot. <i>Measurement: Journal of the International Measurement Confederation</i> , 2007 , 40, 687-698	4.6	1
15	Robust and fault tolerant controller for attitude control of a satellite launch vehicle. <i>IET Control Theory and Applications</i> , 2007 , 1, 304-312	2.5	24
14	MEMS Capacitive Accelerometers. <i>Sensor Letters</i> , 2007 , 5, 471-484	0.9	21
13	Disturbance Rejection and Control Allocation of Over-Actuated systems H 2006 ,		4

12	A constant phase element sensor for monitoring microbial growth. <i>Sensors and Actuators B: Chemical</i> , 2006 , 119, 186-191	8.5	44
11	An object-based coding scheme for frontal surface of defective fluted ingot. <i>ISA Transactions</i> , 2006 , 45, 1-8	5.5	9
10	Modeling of a capacitive probe in a polarizable medium. <i>Sensors and Actuators A: Physical</i> , 2005 , 120, 115-122	3.9	29
9	A novel shape-based coding-decoding technique for an industrial visual inspection system. <i>ISA Transactions</i> , 2004 , 43, 3-12	5.5	1
8	PC-based gas-solids two-phase mass flowmeter for pneumatically conveying systems. <i>Flow Measurement and Instrumentation</i> , 2000 , 11, 205-212	2.2	9
7	An improved method for determining the stability of interval matrices. <i>International Journal of Systems Science</i> , 2000 , 31, 171-176	2.3	3
6	Finite-difference resistance modelling for liquid level measurement in stratified gas-liquid systems. <i>Measurement Science and Technology</i> , 1994 , 5, 574-579	2	5
5	. <i>IEEE Transactions on Automatic Control</i> , 1993 , 38, 302-304	5.9	51
4	Singular perturbation analysis of discrete cheap control problems. <i>International Journal of Systems Science</i> , 1992 , 23, 57-70	2.3	
3	Time-optimal control algorithm for two-time-scale discrete system. <i>International Journal of Control</i> , 1988 , 47, 1595-1602	1.5	2
2	Singular perturbation method for the transient analysis of a transformer. <i>Electric Power Systems Research</i> , 1982 , 5, 307-313	3.5	2
1	Fault tolerant controller for attitude control of satellite launch vehicle via LMI approach		2