

Soumitro Banerjee

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.

114 papers	2,825 citations	26 h-index	50 g-index
125 ext. papers	3,251 ext. citations	3.4 avg, IF	5.24 L-index

#	Paper	IF	Citations
114	Dynamics of a Filippov predator-prey system with stage-specific intermittent harvesting. <i>Nonlinear Dynamics</i> , 2021 , 105, 1019-1043	5	3
113	Stellar mid-life crisis: subcritical magnetic dynamos of solar-like stars and the breakdown of gyrochronology. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2021 , 506, L50-L54	4.3	3
112	Local and global bifurcations in 3D piecewise smooth discontinuous maps. <i>Chaos</i> , 2021 , 31, 013126	3.3	0
111	Piecewise Quadratic Slope Compensation Technique for DC-DC Switching Converters. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2020 , 67, 5574-5585	3.9	5
110	Hyperchaos in 3-D piecewise smooth maps. <i>Chaos, Solitons and Fractals</i> , 2020 , 133, 109681	9.3	2
109	Shilnikov-type dynamics in three-dimensional piecewise smooth maps. <i>Chaos, Solitons and Fractals</i> , 2020 , 133, 109655	9.3	1
108	Limiting distribution of periodic position measurements of a quantum harmonic oscillator. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2020 , 384, 126397	2.3	
107	Using YY supermales to destabilize invasive fish populations. <i>Theoretical Population Biology</i> , 2020 , 134, 1-14	1.2	4
106	Electronic circuit equivalent of a mechanical impacting system. <i>Nonlinear Dynamics</i> , 2020 , 99, 3113-3121	5	2
105	Dynamics of a system of coupled inverted pendula with vertical forcing. <i>Chaos, Solitons and Fractals</i> , 2020 , 141, 110358	9.3	1
104	Nordmark map and the problem of large-amplitude chaos in impact oscillators. <i>Physical Review E</i> , 2020 , 102, 022211	2.4	5
103	Sliding mode dynamics on a prey-predator system with intermittent harvesting policy. <i>Nonlinear Dynamics</i> , 2019 , 98, 1299-1314	5	5
102	Measurement of Van der Waals force using oscillating optical tweezers. <i>Applied Physics Letters</i> , 2019 , 115, 123701	3.4	6
101	Enhanced Stability Caused by a One-Cycle Delay in a Digital Current-Mode Controlled Buck Converter. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2018 , 65, 1979-1983	3.5	2
100	Local directional ZigZag pattern: A rotation invariant descriptor for texture classification. <i>Pattern Recognition Letters</i> , 2018 , 108, 23-30	4.7	29
99	. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2018 , 65, 2221-2231	3.9	3
98	Sufficient conditions for asymptotic stability and stabilization of autonomous fractional order systems. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2018 , 56, 365-379	3.7	24

97	Experimental Observation of Multiple Attractor Bifurcation in an Electronic Circuit. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2018 , 65, 1254-1258	3.5	6
96	Parameter estimation for 1D PWL chaotic maps using noisy dynamics. <i>Nonlinear Dynamics</i> , 2018 , 94, 2979-2993	3	2
95	Robust chaos in 3-D piecewise linear maps. <i>Chaos</i> , 2018 , 28, 123101	3.3	3
94	Image Denoising Using Fractal Hierarchical Classification. <i>Communications in Computer and Information Science</i> , 2018 , 631-645	0.3	0
93	Fractal image compression using upper bound on scaling parameter. <i>Chaos, Solitons and Fractals</i> , 2018 , 106, 16-22	9.3	19
92	The Behavior of Synchronized Frequency in Weakly Coupled Nonidentical Periodic Oscillators. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2017 , 27, 1750008	2	0
91	Effect of stochastically moving border on basins of attraction in a class of piecewise smooth maps. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2017 , 381, 2161-2166	2.3	2
90	Relationship of fast-scale and slow-scale instabilities in switching circuit with multiple inputs. <i>International Journal of Circuit Theory and Applications</i> , 2017 , 45, 1382-1396	2	2
89	Bifurcation of Quasiperiodic Orbit in a 3D Piecewise Linear Map. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2017 , 27, 1730033	2	9
88	Avoiding instabilities in power electronic systems: toward an on-chip implementation. <i>IET Power Electronics</i> , 2017 , 10, 1778-1787	2.2	6
87	Synchronization Phenomena in Interconnected Power Electronic Systems. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2016 , 63, 221-225	3.5	12
86	Asymptotic stability and stabilization of a class of nonautonomous fractional order systems. <i>Nonlinear Dynamics</i> , 2016 , 85, 167-177	5	15
85	Fast-scale stability limits of a two-stage boost power converter. <i>International Journal of Circuit Theory and Applications</i> , 2016 , 44, 1127-1141	2	14
84	Dangerous Bifurcations Revisited. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2016 , 26, 1630040	2	8
83	Complex non-linear phenomena and stability analysis of interconnected power converters used in distributed power systems. <i>IET Power Electronics</i> , 2016 , 9, 855-863	2.2	12
82	Why does narrow band chaos in impact oscillators disappear over a range of frequencies?. <i>Nonlinear Dynamics</i> , 2016 , 86, 2017-2022	5	5
81	Nonlinear Analysis of Discretization Effects in a Digital Current Mode Controlled Boost Converter. <i>IEEE Journal on Emerging and Selected Topics in Circuits and Systems</i> , 2015 , 5, 336-344	5.2	26
80	Synchronization Phenomena in Microgrids With Capacitive Coupling. <i>IEEE Journal on Emerging and Selected Topics in Circuits and Systems</i> , 2015 , 5, 364-371	5.2	11

79	Analysis of Discontinuity Induced Bifurcations in a Dual Input DC-DC Converter. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2015 , 25, 1550071	2	6
78	Non-linear modelling and stability analysis of resonant DCDC converters. <i>IET Power Electronics</i> , 2015 , 8, 2492-2503	2.2	9
77	Fractal Image Compression using Hierarchical Classification of Sub-images 2015 ,		8
76	Does shining light on gold colloids influence aggregation?. <i>Scientific Reports</i> , 2014 , 4, 5213	4.9	8
75	A New Algorithm for Small-Signal Analysis of DCDC Converters. <i>IEEE Transactions on Industrial Informatics</i> , 2014 , 10, 628-636	11.9	20
74	Dynamical behaviors in time-delay systems with delayed feedback and digitized coupling. <i>Chaos, Solitons and Fractals</i> , 2014 , 69, 188-200	9.3	6
73	Bifurcation analysis of an inductorless chaos generator using 1D piecewise smooth map. <i>Mathematics and Computers in Simulation</i> , 2014 , 95, 137-145	3.3	9
72	Nonlinear Dynamics and Bifurcation Analysis of a Boost Converter for Battery Charging in Photovoltaic Applications. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2014 , 24, 1450142	2	25
71	Simulation of Real World Circuits: Extending Conventional Analysis Methods to Circuits Described by Heterogeneous Languages. <i>IEEE Circuits and Systems Magazine</i> , 2014 , 14, 51-70	3.2	30
70	Foldings and grazings of tori in current controlled interleaved boost converters. <i>International Journal of Circuit Theory and Applications</i> , 2014 , 42, 1080-1091	2	13
69	Almost Super Stable Periodic Orbit in an Electric Impact Oscillator. <i>IEICE Proceeding Series</i> , 2014 , 1, 832-835		
68	Stability of a boost converter fed from photovoltaic source. <i>Solar Energy</i> , 2013 , 98, 458-471	6.8	37
67	Symmetry-Breaking Bifurcation in Series-Parallel Load Resonant DC-DC Converters. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2013 , 60, 778-787	3.9	19
66	Dynamical analysis of single-inductor dual-output DC-DC converters 2013 ,		6
65	Singularities in soft-impacting systems. <i>Physica D: Nonlinear Phenomena</i> , 2012 , 241, 553-565	3.3	33
64	Torus destruction in a nonsmooth noninvertible map. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2012 , 376, 400-406	2.3	4
63	Occurrence of multiple attractor bifurcations in the two-dimensional piecewise linear normal form map. <i>Nonlinear Dynamics</i> , 2012 , 67, 293-307	5	13
62	Complex Interaction Between Tori and Onset of Three-Frequency Quasi-Periodicity in a Current Mode Controlled Boost Converter. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2012 , 59, 207-214	3.9	47

61	LOCAL BIFURCATIONS OF A QUASIPERIODIC ORBIT. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2012 , 22, 1250289	2	4
60	Nonlinear stability analysis and a new design methodology for a PEM fuel cell fed DCDC boost converter. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 18205-18215	6.7	20
59	Improving load regulation in current mode control through inductor current filtering. <i>International Journal of Power Electronics</i> , 2012 , 4, 71	0.2	1
58	ONE-DIMENSIONAL DISCONTINUOUS MAP ANALYSIS OF DCDC CONVERTERS UNDER VOLTAGE CONTROLLED PULSE SKIPPING MODULATION. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2012 , 22, 1250049	2	2
57	Bifurcations in frequency controlled load resonant DC-DC converters 2012 ,		2
56	Circle Like Strange Attractor in a Piecewise Smooth Map*. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012 , 45, 81-86		
55	Achieving Monotonic Variation of Spectral Composition in DCDC Converters Using Pulse Skipping Modulation. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2011 , 58, 1958-1966	3.9	20
54	Adaptive identification of sparse systems with variable sparsity 2011 ,		3
53	LOCAL AND GLOBAL BIFURCATIONS IN THREE-DIMENSIONAL, CONTINUOUS, PIECEWISE SMOOTH MAPS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2011 , 21, 1617-1636	1.3	12
52	Vanishing singularity in hard impacting systems. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2011 , 16, 319-332	1.3	12
51	Border-collision bifurcations in a generalized piecewise linear-power map. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2011 , 16, 547-567	1.3	10
50	Influence of a square-root singularity on the behaviour of piecewise smooth maps. <i>Nonlinearity</i> , 2010 , 23, 445-463	1.7	22
49	Bifurcation phenomena in two-dimensional piecewise smooth discontinuous maps. <i>Chaos</i> , 2010 , 20, 033101	1.3	20
48	Chaos, coexisting attractors, and fractal basin boundaries in DC drives with full-bridge converter 2010 ,		2
47	COMPLEX DYNAMICS OF BILINEAR OSCILLATOR CLOSE TO GRAZING. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2010 , 20, 3801-3817	2	49
46	Bifurcation behavior of a boost converter under voltage controlled pulse skipping modulation in the light of 1-D discontinuous map model 2010 ,		1
45	Impact of a Frequency Modulated Pulsewidth Modulation (PWM) Switching Converter on the Input Power System Quality. <i>IEEE Transactions on Power Electronics</i> , 2010 , 25, 1450-1459	7.2	27
44	RHP zero elimination with near optimum regulation in a current controlled tri-state boost converter through inductor current filtering 2010 ,		1

43	. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2010 , 57, 1793-1801	3.9	40
42	Bifurcation analysis of an impact oscillator with a one-sided elastic constraint near grazing. <i>Physica D: Nonlinear Phenomena</i> , 2010 , 239, 312-321	3.3	88
41	Two-mode dynamics in pulse-modulated control systems. <i>Annual Reviews in Control</i> , 2010 , 34, 62-70	10.3	6
40	Period increment cascades in a discontinuous map with square-root singularity. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2010 , 14, 961-976	1.3	8
39	Voltage controlled pulse skipping modulation: Extension towards the ultra light load 2009 ,		6
38	Invisible grazings and dangerous bifurcations in impacting systems: the problem of narrow-band chaos. <i>Physical Review E</i> , 2009 , 79, 037201	2.4	45
37	Application of Filippov method for the analysis of subharmonic instability in dc/dc converters. <i>International Journal of Circuit Theory and Applications</i> , 2009 , 37, 899-919	2	83
36	Existence of chaos in a piecewise smooth two-dimensional contractive map. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2009 , 373, 2922-2926	2.3	2
35	Torus destruction via global bifurcations in a piecewise-smooth, continuous map with square-root nonlinearity. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2009 , 373, 4426-4433	2.3	5
34	A Current-Controlled Tristate Boost Converter With Improved Performance Through RHP Zero Elimination. <i>IEEE Transactions on Power Electronics</i> , 2009 , 24, 776-786	7.2	57
33	Period Increment Cascades in a Discontinuous Map with Square-Root Singularity*. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2009 , 42, 160-165		2
32	A novel current controlled tri-state boost converter with superior dynamic performance 2008 ,		5
31	Stability Analysis of the Continuous-Conduction-Mode Buck Converter Via Filippov's Method. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2008 , 55, 1084-1096	3.9	150
30	Chaos-Modulated Ramp IC for EMI Reduction in PWM Buck Converters Design and Analysis of Critical Issues 2008 ,		7
29	MULTIPLE-ATTRACTOR BIFURCATIONS AND QUASIPERIODICITY IN PIECEWISE-SMOOTH MAPS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2008 , 18, 1775-1789	2	20
28	Transitions from phase-locked dynamics to chaos in a piecewise-linear map. <i>Physical Review E</i> , 2008 , 77, 026206	2.4	21
27	Modeling and analysis of DC-DC converters under Pulse Skipping Modulation 2008 ,		7
26	Stability analysis and control of bifurcations of parallel connected DC/DC converters using the monodromy matrix 2008 ,		2

25	Experimental study of impact oscillator with one-sided elastic constraint. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2008 , 366, 679-704	3	96
24	On the existence of low-period orbits in n-dimensional piecewise linear discontinuous maps. <i>Nonlinear Dynamics</i> , 2008 , 53, 369-380	5	23
23	Character of the map for switched dynamical systems for observations on the switching manifold. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008 , 372, 4234-4240	2.3	13
22	The nature of the normal form map for soft impacting systems. <i>International Journal of Non-Linear Mechanics</i> , 2008 , 43, 504-513	2.8	49
21	Bifurcation Analysis of PWM-1 Voltage-Mode-Controlled Buck Converter Using the Exact Discrete Model. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers</i> , 2007 , 54, 1120-1130		69
20	Codimension-three bifurcations: explanation of the complex one-, two-, and three-dimensional bifurcation structures in nonsmooth maps. <i>Physical Review E</i> , 2007 , 75, 066205	2.4	28
19	Control of Fast Scale Bifurcations in Power-Factor Correction Converters. <i>IEEE Transactions on Circuits and Systems Part 2: Express Briefs</i> , 2007 , 54, 805-809		48
18	Multi-parametric bifurcations in a piecewise-linear discontinuous map. <i>Nonlinearity</i> , 2006 , 19, 1875-1906	1.7	70
17	Stability of switching circuits using complete-cycle solution matrices 2006 ,		3
16	Is the Knowledge about Bifurcation and Chaos in Power Electronics Useful in Practice? 2006 ,		5
15	Control of switching circuits using complete-cycle solution matrices 2006 ,		4
14	Border collision route to quasiperiodicity: Numerical investigation and experimental confirmation. <i>Chaos</i> , 2006 , 16, 023122	3.3	73
13	MULTIPLE ATTRACTOR BIFURCATIONS IN A PIECEWISE-SMOOTH MAP WITH QUASIPERIODICITY. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2006 , 39, 427-432		2
12	Border collision bifurcations in a soft impact system. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2006 , 354, 281-287	2.3	58
11	Dynamics of a piecewise smooth map with singularity. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2005 , 337, 87-92	2.3	5
10	Dangerous bifurcation at border collision: when does it occur?. <i>Physical Review E</i> , 2005 , 71, 057202	2.4	28
9	BORDER-COLLISION BIFURCATIONS IN ONE-DIMENSIONAL DISCONTINUOUS MAPS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2003 , 13, 3341-3351	2	87
8	Border collision bifurcations at the change of state-space dimension. <i>Chaos</i> , 2002 , 12, 1054-1069	3.3	22

7	Nonlinear Phenomena in Power Electronics: Bifurcations, Chaos, Control, and Applications 2001 ,		400
6	Bifurcations and chaos in the tolerance band PWM technique. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers</i> , 2000 , 47, 254-259		11
5	Border collision bifurcations in two-dimensional piecewise smooth maps. <i>Physical Review E</i> , 1999 , 59, 4052-4061	2.4	195
4	Robust Chaos. <i>Physical Review Letters</i> , 1998 , 80, 3049-3052	7.4	210
3	Transmission of Binary Information with a Chaos Coded Communication System using QDPSK-Modulation. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 1998 , 53, 1022-1028	14	
2	Control of chaos in piecewise linear systems with switching nonlinearity. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1995 , 200, 115-120	2.3	17
1	New Undergraduate Laboratory Experiments on Induction Generators. <i>International Journal of Electrical Engineering and Education</i> , 1992 , 29, 163-168	0.6	