

Andr E Botha

List of Publications by Citations

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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.

43
papers

253
citations

11
h-index

13
g-index

46
ext. papers

328
ext. citations

2.8
avg, IF

3.59
L-index

#	Paper	IF	Citations
43	Structured chaos in a devil's staircase of the Josephson junction. <i>Chaos</i> , 2014 , 24, 033115	3.3	21
42	Optimized shooting method for finding periodic orbits of nonlinear dynamical systems. <i>Engineering With Computers</i> , 2015 , 31, 749-762	4.5	17
41	Devil's staircases and continued fractions in Josephson junctions. <i>Physical Review B</i> , 2013 , 88,	3.3	17
40	Electron-spin polarization in symmetric type-II quantum wells from bulk inversion asymmetry. <i>Physical Review B</i> , 2003 , 67,	3.3	16
39	Modeling of LC-shunted intrinsic Josephson junctions in high-T _c superconductors. <i>Superconductor Science and Technology</i> , 2017 , 30, 024006	3.1	15
38	Devil's staircase and the absence of chaos in the dc- and ac-driven overdamped Frenkel-Kontorova model. <i>Physical Review E</i> , 2017 , 96, 022210	2.4	15
37	Inertial effects in the dc+ac driven underdamped Frenkel-Kontorova model: Subharmonic steps, chaos, and hysteresis. <i>Physical Review E</i> , 2019 , 99, 022206	2.4	11
36	Structured Chaos in 1-D Stacks of Intrinsic Josephson Junctions Irradiated by Electromagnetic Waves. <i>Journal of Superconductivity and Novel Magnetism</i> , 2015 , 28, 349-354	1.5	11
35	Manifestation of resonance-related chaos in coupled Josephson junctions. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2012 , 376, 3609-3619	2.3	11
34	Onset of chaos in intrinsic Josephson junctions. <i>Chaos, Solitons and Fractals</i> , 2013 , 48, 32-37	9.3	11
33	Re-orientation of the easy axis in \mathbb{D} -junction. <i>Europhysics Letters</i> , 2018 , 122, 37001	1.6	11
32	Some chaotic features of intrinsically coupled Josephson junctions. <i>Physica C: Superconductivity and Its Applications</i> , 2013 , 491, 63-65	1.3	9
31	Analysis of chimera states as drive-response systems. <i>Scientific Reports</i> , 2018 , 8, 1830	4.9	7
30	Characteristic distribution of finite-time Lyapunov exponents for chimera states. <i>Scientific Reports</i> , 2016 , 6, 29213	4.9	7
29	Devil's staircases in the IV characteristics of superconductor/ferromagnet/superconductor Josephson junctions. <i>Physical Review B</i> , 2018 , 97,	3.3	7
28	Analytical Criteria for Magnetization Reversal in a \mathbb{D} Josephson Junction. <i>Physical Review Applied</i> , 2020 , 14,	4.3	6
27	A Farey staircase from the two-extremum return map of a Josephson junction. <i>Nonlinear Dynamics</i> , 2016 , 84, 1363-1372	5	6

26	Spontaneous and Controlled Chaos Synchronization in Intrinsic Josephson Junctions. <i>IEEE Transactions on Applied Superconductivity</i> , 2018 , 28, 1-6	1.8	6
25	Magnetization-induced dynamics of a Josephson junction coupled to a nanomagnet. <i>Physical Review B</i> , 2017 , 96,	3.3	5
24	Chaos induced by coupling between Josephson junctions. <i>JETP Letters</i> , 2015 , 101, 251-257	1.2	4
23	Superconducting Spintronics in the Presence of Spin-Orbital Coupling. <i>IEEE Transactions on Applied Superconductivity</i> , 2018 , 28, 1-5	1.8	4
22	Directional bonding explains the high conductance of atomic contacts in bcc metals. <i>Physical Review B</i> , 2020 , 101,	3.3	3
21	General R-matrix approach for integrating the multiband k?p equation in layered semiconductor structures. <i>Computer Physics Communications</i> , 2012 , 183, 197-202	4.2	3
20	Chimera States in an Intrinsically Coupled Stack of Josephson Junctions. <i>Journal of Superconductivity and Novel Magnetism</i> , 2017 , 30, 1659-1663	1.5	3
19	Activationless electron and hole recombination rate in semimetallic semiconductor quantum wells. <i>Solid State Communications</i> , 2000 , 115, 625-629	1.6	3
18	Refined electron-spin transport model for single-element ferromagnetic systems: Application to nickel nanocontacts. <i>Physical Review B</i> , 2020 , 102,	3.3	3
17	Signs of memory in a plastic frustrated Kuramoto model of neurons. <i>Nonlinear Dynamics</i> , 2020 , 100, 3685-3694	5	2
16	Multiband Riccati equation for electronic structure and transport in type-II heterostructures. <i>Microelectronics Journal</i> , 2007 , 38, 332-341	1.8	2
15	EFFECT OF REMOTE BAND COUPLING ON NET RECOMBINATION CURRENT IN TYPE-II HETEROSTRUCTURES. <i>International Journal of Nanoscience</i> , 2006 , 05, 119-129	0.6	2
14	The Effect of Anisotropy on Resonant Tunnelling Spin Polarization in Type-II Heterostructures. <i>Physica Status Solidi (B): Basic Research</i> , 2002 , 231, 437-445	1.3	2
13	A Theory of Charge Transport Due to Electron-Hole Recombination in Type II Semiconductor Quantum Well Devices. <i>Physica Status Solidi (B): Basic Research</i> , 2000 , 222, 569-584	1.3	2
12	Chaos along the rc-branch of RLC-shunted intrinsic Josephson junctions. <i>Chaos, Solitons and Fractals</i> , 2022 , 156, 111865	9.3	2
11	Cascade of parametric resonances in coupled Josephson junctions. <i>Low Temperature Physics</i> , 2016 , 42, 446-452	0.7	2
10	Double and triple resonance behaviour in large systems of LC-shunted intrinsic Josephson junctions. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2021 , 387, 127025	2.3	2
9	Disrupted chimera ordering of magnetization within FeCl ₂ layers. <i>Europhysics Letters</i> , 2018 , 123, 60004	1.6	2

8	Evaluation of Kirkwood-Buff integrals via finite size scaling: a large scale molecular dynamics study. <i>Journal of Physics: Conference Series</i> , 2015 , 574, 012092	0.3	1
7	DESIGN OF SEMICONDUCTOR HETEROSTRUCTURES VIA INVERSE QUANTUM SCATTERING. <i>Modern Physics Letters B</i> , 2008 , 22, 2151-2161	1.6	1
6	Peculiarities of IV-characteristics and magnetization dynamics in the $\bar{0}$ Josephson junction. <i>Low Temperature Physics</i> , 2020 , 46, 932-938	0.7	0
5	Spin-lattice dynamics simulation of the Einstein-Haas effect. <i>Computational Materials Science</i> , 2022 , 209, 111359	3.2	0
4	Electromagnetic Analog of 3D Autonomous ODEs with Quadratic Nonlinearities. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2014 , 24, 1450070	2	
3	Two-polariton interference phenomenon in dispersive and photonic band-gap materials. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2003 , 17, 465-467	3	
2	The AC Driven Frenkel-Kontorova Model: From Shapiro Steps to Chaos. <i>Springer Proceedings in Complexity</i> , 2021 , 943-951	0.3	
1	Probability distribution for heat exchange in plastic deformation. <i>Physical Review E</i> , 2021 , 104, 034101	2.4	