

Flavio Abreu Araujo

List of Publications by Year in descending order

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45
papers

2,958
citations

430442

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docs citations

45
times ranked

3748
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetically Activated Flexible Thermoelectric Switches Based on Interconnected Nanowire Networks. <i>Advanced Materials Technologies</i> , 2022, 7, 2101043.	3.0	10
2	Flexible thermoelectric films based on interconnected magnetic nanowire networks. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 223001.	1.3	6
3	Forecasting the outcome of spintronic experiments with Neural Ordinary Differential Equations. <i>Nature Communications</i> , 2022, 13, 1016.	5.8	17
4	Ampereâ€™s Oersted field splitting of the nonlinear spin-torque vortex oscillator dynamics. <i>Scientific Reports</i> , 2022, 12, .	1.6	3
5	Reservoir Computing Leveraging the Transient Non-linear Dynamics of Spin-Torque Nano-Oscillators. <i>Natural Computing Series</i> , 2021, , 307-329.	2.2	4
6	Magneto-Transport in Flexible 3D Networks Made of Interconnected Magnetic Nanowires and Nanotubes. <i>Nanomaterials</i> , 2021, 11, 221.	1.9	13
7	Giant Magnetoresistance and Magneto-Thermopower in 3D Interconnected Ni _x Fe _{1-x} /Cu Multilayered Nanowire Networks. <i>Nanomaterials</i> , 2021, 11, 1133.	1.9	12
8	Spin Caloritronics in 3D Interconnected Nanowire Networks. <i>Nanomaterials</i> , 2020, 10, 2092.	1.9	16
9	Designing Large Arrays of Interacting Spin-Torque Nano-Oscillators for Microwave Information Processing. <i>Physical Review Applied</i> , 2020, 13, .	1.5	9
10	Role of non-linear data processing on speech recognition task in the framework of reservoir computing. <i>Scientific Reports</i> , 2020, 10, 328.	1.6	48
11	3D magnetic nanowire networks. , 2020, , 801-831.		3
12	Large Spin-Dependent Thermoelectric Effects in NiFe-based Interconnected Nanowire Networks. <i>Nanoscale Research Letters</i> , 2020, 15, 137.	3.1	17
13	Magnetic Control of Flexible Thermoelectric Devices Based on Macroscopic 3D Interconnected Nanowire Networks. <i>Advanced Electronic Materials</i> , 2019, 5, 1800819.	2.6	22
14	Temporal Pattern Recognition with Delayed-Feedback Spin-Torque Nano-Oscillators. <i>Physical Review Applied</i> , 2019, 12, .	1.5	45
15	Making flexible spin caloritronic devices with interconnected nanowire networks. <i>Science Advances</i> , 2019, 5, eaav2782.	4.7	41
16	Tunable magnetoresistance and thermopower in interconnected NiCr and CoCr nanowire networks. <i>Applied Physics Letters</i> , 2019, 115, .	1.5	16
17	Reservoir computing with the frequency, phase, and amplitude of spin-torque nano-oscillators. <i>Applied Physics Letters</i> , 2019, 114, .	1.5	81
18	Microwave Neural Processing and Broadcasting with Spintronic Nano-Oscillators. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
19	Brain-Inspired Computing with Spintronics Devices. , 2018, , .		1
20	Vowel recognition with four coupled spin-torque nano-oscillators. Nature, 2018, 563, 230-234.	13.7	356
21	Skyrmion Gas Manipulation for Probabilistic Computing. Physical Review Applied, 2018, 9, .	1.5	148
22	A Nanotechnology-Ready Computing Scheme based on a Weakly Coupled Oscillator Network. Scientific Reports, 2017, 7, 44772.	1.6	53
23	Spin-Transfer-Torque Driven Vortex Dynamics in Electrodeposited Nanowire Spin-Valves. Spin, 2017, 07, 1740007.	0.6	6
24	Probing Phase Coupling Between Two Spin-Torque Nano-Oscillators with an External Source. Physical Review Letters, 2017, 118, 247202.	2.9	15
25	Driven energy transfer between coupled modes in spin-torque oscillators. Physical Review B, 2017, 95, .	1.1	3
26	Neuromorphic computing with nanoscale spintronic oscillators. Nature, 2017, 547, 428-431.	13.7	893
27	Neuromorphic computing through time-multiplexing with a spin-torque nano-oscillator. , 2017, IEDM 2017, .		16
28	Controlling the synchronization properties of two dipolarly coupled vortex based spin-torque nano-oscillators by the intermediate of a third one. Journal of Applied Physics, 2016, 120, .	1.1	12
29	Recent developments in the ABINIT software package. Computer Physics Communications, 2016, 205, 106-131.	3.0	662
30	Synthesis of dense arrays of multiferroic $\text{CoFe}_{2}\text{O}_{4}$ – $\text{PbZr}_{0.52}\text{Ti}_{0.48}\text{O}_{3}$ core/shell nanocables. RSC Advances, 2016, 6, 106716-106722.	1.7	7
31	Efficient Synchronization of Dipolarly Coupled Vortex-Based Spin Transfer Nano-Oscillators. Scientific Reports, 2015, 5, 17039.	1.6	97
32	Optimizing magnetodipolar interactions for synchronizing vortex based spin-torque nano-oscillators. Physical Review B, 2015, 92, .	1.1	25
33	Capacitive distance control for measuring particulate magnetic media with magnetic force microscopy. , 2015, , .		1
34	Two-dimensional quantum transport in highly conductive carbon nanotube fibers. Physical Review B, 2015, 92, .	1.1	17
35	Synthesis and magnetic properties of $\text{Ni}/\text{BaTiO}_{3}$ nanocable arrays within ordered anodic alumina templates. Journal of Materials Chemistry C, 2015, 3, 107-111.	2.7	10
36	Nonlinear Behavior and Mode Coupling in Spin-Transfer Nano-Oscillators. Physical Review Applied, 2014, 2, .	1.5	28

#	ARTICLE	IF	CITATIONS
37	Reversal mechanism, switching field distribution, and dipolar frustrations in Co/Pt bit pattern media based on auto-assembled anodic alumina hexagonal nanobump arrays. <i>Physical Review B</i> , 2014, 89, .	1.1	36
38	Influence of the packing fraction and host matrix on the magnetoelastic anisotropy in Ni nanowire composite arrays. <i>Journal of Applied Physics</i> , 2013, 114, 123907.	1.1	10
39	Numerical and analytical investigation of the synchronization of dipolarly coupled vortex spin-torque nano-oscillators. <i>Applied Physics Letters</i> , 2013, 103, 122405.	1.5	44
40	Single spin-torque vortex oscillator using combined bottom-up approach and e-beam lithography. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	18
41	STVOs in multilayered metallic NWs electrodeposited inside nanoporous alumina templates: experimental measurements and micromagnetic study. , 2012, , .		0
42	Microwave signal emission in spin-torque vortex oscillators in metallic nanowires: Experimental measurements and micromagnetic numerical study. <i>Physical Review B</i> , 2012, 86, .	1.1	20
43	Phase locking dynamics of dipolarly coupled vortex-based spin transfer oscillators. <i>Physical Review B</i> , 2012, 85, .	1.1	79
44	Periodic arrays of magnetic nanostructures by depositing Co/Pt multilayers on the barrier layer of ordered anodic alumina templates. <i>Applied Physics Letters</i> , 2012, 101, .	1.5	25
45	Bottom-up approach for the fabrication of spin torque nano-oscillators. <i>Journal Physics D: Applied Physics</i> , 2011, 44, 105003.	1.3	13