

Nicolas M Vargas

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

416
citations

1039880

9
h-index

752573

20
g-index

23
all docs

23
docs citations

23
times ranked

705
citing authors

#	ARTICLE	IF	CITATIONS
1	Subthreshold firing in Mott nanodevices. <i>Nature</i> , 2019, 569, 388-392.	13.7	139
2	Robust Coupling between Structural and Electronic Transitions in a Mott Material. <i>Physical Review Letters</i> , 2019, 122, 057601.	2.9	54
3	Spatiotemporal characterization of the field-induced insulator-to-metal transition. <i>Science</i> , 2021, 373, 907-911.	6.0	52
4	Asymmetric magnetic dots: A way to control magnetic properties. <i>Journal of Applied Physics</i> , 2011, 109, .	1.1	25
5	Domain wall control in wire-tube nanoelements. <i>Applied Physics Letters</i> , 2013, 102, 202407.	1.5	20
6	Structural Manipulation of Phase Transitions by Self-Induced Strain in Geometrically Confined Thin Films. <i>Advanced Functional Materials</i> , 2020, 30, 2005939.	7.8	17
7	Tailoring the magnetic properties of Fe asymmetric nanodots. <i>Journal of Magnetism and Magnetic Materials</i> , 2011, 323, 1563-1567.	1.0	14
8	Direct Observation of the Electrically Triggered Insulator-Metal Transition in V ₃ O ₅ Far below the Transition Temperature. <i>Physical Review X</i> , 2022, 12, .	2.8	13
9	Magnetization reversal in multisegmented nanowires: Parallel and serial reversal modes. <i>Applied Physics Letters</i> , 2012, 101, .	1.5	12
10	Ultradense Arrays of Sub-100 nm Co/CoO Nanodisks for Spintronics Applications. <i>ACS Applied Nano Materials</i> , 2020, 3, 4037-4044.	2.4	9
11	Imaging of Electrothermal Filament Formation in a Mott Insulator. <i>Physical Review Applied</i> , 2021, 16, .	1.5	9
12	Complex magnetic reversal modes in low-symmetry nanoparticles. <i>Applied Physics Letters</i> , 2014, 104, 123102.	1.5	6
13	Unusual magnetic damping effect in a silver-cobalt ferrite hetero nano-system. <i>RSC Advances</i> , 2015, 5, 17117-17122.	1.7	6
14	Temperature trends and correlation between SQUID superparamagnetic relaxometry and dc-magnetization on model iron-oxide nanoparticles. <i>Journal of Applied Physics</i> , 2020, 127, .	1.1	6
15	Imaging the itinerant-to-localized transmutation of electrons across the metal-to-insulator transition in V ₂ O ₃ . <i>Science Advances</i> , 2021, 7, eabj1164.	4.7	6
16	Tuning Spin-Orbit Torques Across the Phase Transition in VO ₂ /NiFe Heterostructure. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	6
17	Reversal modes in small rings: Signature on the susceptibility. <i>Journal of Applied Physics</i> , 2014, 115, 223903.	1.1	5
18	Helical spin structure in iron chains with hybridized boundaries. <i>Applied Physics Letters</i> , 2020, 117, 213105.	1.5	4

#	ARTICLE	IF	CITATIONS
19	Chiral symmetry and scale invariance breaking in spin chains. AIP Advances, 2020, 10, 025215.	0.6	4
20	Mechanisms of magnetization reversal in stadium-shaped particles. Journal of Applied Physics, 2012, 112, .	1.1	3
21	New magnetic states in nanorings created by anisotropy gradients. Journal of Magnetism and Magnetic Materials, 2019, 484, 55-60.	1.0	3
22	A quantum material spintronic resonator. Scientific Reports, 2021, 11, 15082.	1.6	3
23	Stress-tailoring magnetic anisotropy of V_2O_3 bilayers. Physical Review Materials, 2022, 6, .	0.9	0