

Frederic Dumas-Bouchiat

List of Publications by Year in descending order

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Version: 2024-02-01

55
papers

1,313
citations

361413

20
h-index

377865

34
g-index

55
all docs

55
docs citations

55
times ranked

1690
citing authors

#	ARTICLE	IF	CITATIONS
1	Adaptive gold/vanadium dioxide periodic arrays for infrared optical modulation. Applied Surface Science, 2022, , 152592.	6.1	4
2	Textured Nd-Fe-B hard magnetic thin films prepared by pulsed laser deposition with single alloy targets. Journal of Magnetism and Magnetic Materials, 2021, 520, 167584.	2.3	5
3	Experimental Optimization of the Thermal Rectification of a Far-Field Diode Based on VO ₂ . , 2021, , .		0
4	Vanadium Dioxide-Iridium Composite Development: Specific Near Infrared Surface Plasmon Resonance. Journal of Composites Science, 2021, 5, 193.	3.0	3
5	VO ₂ Substrate Effect on the Thermal Rectification of a Far-Field Radiative Diode. Physical Review Applied, 2020, 14, .	3.8	15
6	Thermophysical characterisation of VO ₂ thin films hysteresis and its application in thermal rectification. Scientific Reports, 2019, 9, 8728.	3.3	34
7	Design and Characterisation of VO ₂ Based Switches for Ultra-Fast Reconfigurable Devices. , 2019, , .		2
8	A dual nanosecond-pulsed laser setup for nanocomposite synthesis of Ag nanoparticles in Al ₂ O ₃ /VO ₂ matrix. Journal of Applied Physics, 2019, 125, 054301.	2.5	5
9	A quantitative study of magnetic interactions between a micro-magnet array and individual magnetic micro-particles by scanning particle force microscopy. Journal of Micromechanics and Microengineering, 2019, 29, 015010.	2.6	8
10	Thermal hysteresis measurement of the VO ₂ dielectric function for its metal-insulator transition by visible-IR ellipsometry. Journal of Applied Physics, 2018, 124, .	2.5	40
11	Diffuse phase transition of BST thin films in the microwave domain. Applied Physics Letters, 2018, 112, .	3.3	10
12	Thermal hysteresis measurement of the VO ₂ emissivity and its application in thermal rectification. Scientific Reports, 2018, 8, 8479.	3.3	36
13	Mechanotransductive cascade of Myo-II-dependent mesoderm and endoderm invaginations in embryo gastrulation. Nature Communications, 2017, 8, 13883.	12.8	64
14	Effect of the incident power on permittivity, losses and tunability of BaSrTiO ₃ thin films in the microwave frequency range. Applied Physics Letters, 2017, 110, .	3.3	13
15	Ultra-High Tunability of $\text{Ba}_{2/3}\text{Sr}_{1/3}\text{TiO}_3$ -Based Capacitors Under Low Electric Fields. IEEE Microwave and Wireless Components Letters, 2016, 26, 504-506.	3.2	15
16	Electrical transport properties and modelling of electrostrictive resonance phenomena in Ba ₂ /3Sr ₁ /3TiO ₃ thin films. Journal of Applied Physics, 2016, 120, .	2.5	11
17	Domain wall motions in BST ferroelectric thin films in the microwave frequency range. Applied Physics Letters, 2016, 109, 262902.	3.3	9
18	Magneto-optical imaging and analysis of magnetic field micro-distributions with the aid of biased indicator films. Journal of Applied Physics, 2016, 120, .	2.5	10

#	ARTICLE	IF	CITATIONS
19	Microwave dielectric properties of BNT-BTO.08 thin films prepared by sol-gel technique. Journal of Applied Physics, 2016, 119, 144103.	2.5	3
20	Electrical and Optical Properties of $\text{La}_{1-x}\text{A}_x\text{Fe}_y\text{B}_z\text{O}_{3+\delta}$ Perovskite Films (with A = Sr and Ca, and B= Co, Ga, Ti): Toward Interlayers for Optoelectronic Applications. Journal of Physical Chemistry C, 2016, 120, 28583-28590.	3.1	12
21	Some Aspects of Magnetic Force Microscopy of Hard Magnetic Films. IEEE Transactions on Magnetics, 2016, 52, 1-8.	2.1	14
22	Fabrication and characterization of polymer membranes with integrated arrays of high performance micro-magnets. Materials Today Communications, 2016, 6, 50-55.	1.9	30
23	BST thin film capacitors integrated within a frequency tunable antenna. , 2016, , .		4
24	Development and applications of a DNA labeling method with magnetic nanoparticles to study the role of horizontal gene transfer events between bacteria in soil pollutant bioremediation processes. Environmental Science and Pollution Research, 2015, 22, 20322-20327.	5.3	11
25	Micro-magnet arrays for specific single bacterial cell positioning. Journal of Magnetism and Magnetic Materials, 2015, 380, 72-77.	2.3	30
26	Combined magnetic and chemical patterning for neural architectures. Journal Physics D: Applied Physics, 2014, 47, 425403.	2.8	6
27	Magnetic nanoparticle DNA labeling for individual bacterial cell detection and recovery. Journal of Microbiological Methods, 2014, 107, 84-91.	1.6	11
28	Micro-magnetic imprinting of high field gradient magnetic flux sources. Applied Physics Letters, 2014, 104, 262401.	3.3	46
29	Selective isolation of bacterial cells within a microfluidic device using magnetic probe-based cell fishing. Sensors and Actuators B: Chemical, 2014, 195, 581-589.	7.8	31
30	Hybrid Bio-Mag-MEMS combining magnetophoresis and dielectrophoresis. European Physical Journal B, 2013, 86, 1.	1.5	12
31	Microfluidic immunomagnetic cell separation using integrated permanent micromagnets. Biomicrofluidics, 2013, 7, 54115.	2.4	50
32	Evolutionary conservation of early mesoderm specification by mechanotransduction in Bilateria. Nature Communications, 2013, 4, 2821.	12.8	160
33	Life on Magnets: Stem Cell Networking on Micro-Magnet Arrays. PLoS ONE, 2013, 8, e70416.	2.5	46
34	Micromagnet structures for magnetic positioning and alignment. Journal of Applied Physics, 2012, 111, .	2.5	23
35	Monitoring the endocytosis of magnetic nanoparticles by cells using permanent micro-flux sources. Biomedical Microdevices, 2012, 14, 947-954.	2.8	29
36	Magnetic Domain Studies of Cobalt Nanostructures. Journal of Superconductivity and Novel Magnetism, 2012, 25, 1901-1906.	1.8	7

#	ARTICLE	IF	CITATIONS
37	A new low consumption 3D compass using integrated magnets and piezoresistive nano-gauges. , 2011, , .		6
38	Autonomous micro-magnet based systems for highly efficient magnetic separation. Applied Physics Letters, 2011, 99, .	3.3	40
39	Simple method for reversible bonding of a polydimethylsiloxane microchannel to a variety of substrates. Micro and Nano Letters, 2011, 6, 871.	1.3	16
40	Trapping of Magnetically-Labelled Liposomes on Flat Micro-Patterned Hard Magnetic Films. AIP Conference Proceedings, 2010, , .	0.4	8
41	Thermomagnetically patterned micromagnets. Applied Physics Letters, 2010, 96, .	3.3	93
42	Magnetic characterization of micropatterned Nd ²⁺ Fe ²⁺ B hard magnetic films using scanning Hall probe microscopy. Journal of Applied Physics, 2010, 108, .	2.5	48
43	Growth of Co isolated clusters in the gas phase: Experiment and molecular dynamics simulations. Physical Review B, 2008, 77, .	3.2	42
44	RF Microwave Switches Based on Reversible Metal-Semiconductor Transition Properties of VO ₂ Thin Films: An Attractive Way To Realise Simple RF Microelectronic Devices. Materials Research Society Symposia Proceedings, 2008, 1129, 1.	0.1	4
45	rf-microwave switches based on reversible semiconductor-metal transition of VO ₂ thin films synthesized by pulsed-laser deposition. Applied Physics Letters, 2007, 91, .	3.3	104
46	Microwave switching functions using reversible metal-insulator transition (MIT) in VO ₂ thin films. , 2007, , .		5
47	Sub-Microsecond RF MEMS Switched Capacitors. IEEE Transactions on Microwave Theory and Techniques, 2007, 55, 1314-1321.	4.6	57
48	Electrical conduction mechanisms of metal nanoclusters embedded in an amorphous Al ₂ O ₃ matrix. Thin Solid Films, 2007, 515, 6324-6327.	1.8	12
49	Gamma radiation effects on RF MEMS capacitive switches. Microelectronics Reliability, 2006, 46, 1741-1746.	1.7	10
50	CMOS Compatible Fast Switching RF MEMS Varactors. , 2006, , .		5
51	Cobalt cluster-assembled thin films deposited by low energy cluster beam deposition: Structural and magnetic investigations of deposited layers. Journal of Applied Physics, 2006, 100, 064304.	2.5	18
52	Magnetic domains in Co-cluster assembled films deposited by LECBD. Applied Surface Science, 2005, 247, 76-82.	6.1	20
53	Optical and Electrical Properties of Metal Nanoclusters Embedded in a Dielectric Medium. Materials Research Society Symposia Proceedings, 2005, 888, 1.	0.1	0
54	Nanometric copper and cobalt clusters deposited using pulsed laser ablation; AFM and MFM investigations. Thin Solid Films, 2004, 453-454, 296-299.	1.8	11

#	ARTICLE	IF	CITATIONS
55	Measuring the Force Gradient Acting on a Magnetic Microsphere above a Micro-Magnet Array. Advanced Materials Research, 0, 872, 167-173.	0.3	5