

Amos Sharoni

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8932881/publications.pdf>

Version: 2024-02-01

57
papers

1,885
citations

257357

24
h-index

254106

43
g-index

58
all docs

58
docs citations

58
times ranked

2680
citing authors

#	ARTICLE	IF	CITATIONS
1	DNA origami based superconducting nanowires. AIP Advances, 2021, 11, .	0.6	7
2	Enhancement of photon detection in superconducting nanowire single photon detector exposed to oscillating magnetic field. Applied Physics Letters, 2021, 118, .	1.5	3
3	Fabrication of Magnetic Platforms for Micron-Scale Organization of Interconnected Neurons. Journal of Visualized Experiments, 2021, , .	0.2	1
4	Twinned nanostructure of VO_2 thin films grown on r-cut sapphire. Physical Review B, 2020, 102, .	1.4	1
5	Magnetic Organization of Neural Networks via Micro-Patterned Devices. Advanced Materials Interfaces, 2020, 7, 2000055.	1.9	7
6	Direct Formation of Carbocyanine J-Aggregates in Organic Solvent. Journal of Physical Chemistry C, 2019, 123, 19087-19093.	1.5	2
7	Comparing Transcriptome Profiles of Neurons Interfacing Adjacent Cells and Nanopatterned Substrates Reveals Fundamental Neuronal Interactions. Nano Letters, 2019, 19, 1451-1459.	4.5	15
8	Low temperature divergence in the AHE and AMR of ultra-thin Pt/Co/Pt trilayers. Journal of Magnetism and Magnetic Materials, 2019, 485, 314-319.	1.0	1
9	Irradiation-induced metal-insulator transition in monolayer graphene. FlatChem, 2019, 14, 100084.	2.8	3
10	Little-Parks oscillations in superconducting ring with Josephson junctions. Journal of Physics: Conference Series, 2018, 969, 012047.	0.3	3
11	Current-Induced Crossover of Flux Periodicity from $h/2e$ to h/e in a Superconducting Nb Nano-Ring. Nano Letters, 2018, 18, 7851-7855.	4.5	3
12	Magnetic Targeting of Growth Factors Using Iron Oxide Nanoparticles. Nanomaterials, 2018, 8, 707.	1.9	45
13	Ramp-Reversal Memory and Phase-Boundary Scarring in Transition Metal Oxides. Advanced Materials, 2017, 29, 1605029.	11.1	32
14	Effect of annealing on Raman spectra of monolayer graphene samples gradually disordered by ion irradiation. Journal of Applied Physics, 2017, 121, 114301.	1.1	19
15	Charge carrier transport asymmetry in monolayer graphene. Physical Review B, 2017, 96, .	1.1	8
16	Influence of ageing on Raman spectra and the conductivity of monolayer graphene samples irradiated by heavy and light ions. Journal of Applied Physics, 2016, 120, .	1.1	10
17	Ultrathin Films of VO_2 on r-Cut Sapphire Achieved by Postdeposition Etching. ACS Applied Materials & Interfaces, 2016, 8, 14863-14870.	4.0	18
18	Current-induced SQUID behavior of superconducting Nb nano-rings. Scientific Reports, 2016, 6, 28320.	1.6	10

#	ARTICLE	IF	CITATIONS
19	High resolution Hall measurements across the VO ₂ metal-insulator transition reveal impact of spatial phase separation. Scientific Reports, 2016, 6, 19496.	1.6	16
20	Hopping magnetoresistance in ion irradiated monolayer graphene. Physica E: Low-Dimensional Systems and Nanostructures, 2016, 76, 158-163.	1.3	16
21	High temperature coefficient of resistance achieved by ion beam assisted sputtering with no heat treatment in $V_{1-x}M_1^yO_x$ ($M = Nb, Hf$). Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2015, 33, 061515.	1.9	0
22	Magnetic micro-device for manipulating PC12 cell migration and organization. Lab on A Chip, 2015, 15, 2030-2036.	3.1	49
23	Raman scattering and electrical resistance of highly disordered graphene. Physical Review B, 2015, 91, .	1.1	29
24	Localization of Charge Carriers in Monolayer Graphene Gradually Disordered by Ion Irradiation. Graphene, 2015, 04, 45-53.	0.3	23
25	Nano-fabricated perpendicular magnetic anisotropy electrodes for lateral spin valves and observation of Nernst-Ettingshausen related signals. Journal of Applied Physics, 2014, 116, 073905.	1.1	5
26	Extracting magnetic anisotropy energies in Co/Pd multilayers via refinement analysis of the full magnetoresistance curves. Journal of Applied Physics, 2014, 115, 173911.	1.1	10
27	Patterning of epitaxial VO ₂ microstructures by a high-temperature lift-off process. Materials Research Express, 2014, 1, 046302.	0.8	6
28	Resolving transitions in the mesoscale domain configuration in VO ₂ using laser speckle pattern analysis. Scientific Reports, 2014, 4, 6259.	1.6	5
29	Ultra-thin filaments revealed by the dielectric response across the metal-insulator transition in VO ₂ . Applied Physics Letters, 2013, 102, .	1.5	25
30	Role of Thermal Heating on the Voltage Induced Insulator-Metal Transition in VO_2 . Physical Review Letters, 2013, 110, 056601.	2.9	238
31	Interactions of neurons with topographic nano cues affect branching morphology mimicking neuron-neuron interactions. Journal of Molecular Histology, 2012, 43, 437-447.	1.0	38
32	Spin-dependent Seebeck effect in non-local spin valve devices. Applied Physics Letters, 2012, 100, .	1.5	54
33	Topographic cues of nano-scale height direct neuronal growth pattern. Biotechnology and Bioengineering, 2012, 109, 1791-1797.	1.7	77
34	Surface enhanced spin-flip scattering in lateral spin valves. Applied Physics Letters, 2010, 96, .	1.5	49
35	Enhanced superconducting vortex pinning with disordered nanomagnetic arrays. Physical Review B, 2010, 82, .	1.1	23
36	Control of spin injection by direct current in lateral spin valves. Physical Review B, 2009, 79, .	1.1	72

#	ARTICLE	IF	CITATIONS
37	Anomalous, hysteretic, transverse magnetoresistance in superconducting thin films with magnetic vortex arrays. Applied Physics Letters, 2009, 94, 252507.	1.5	7
38	Ambient induced degradation and chemically activated recovery in copper phthalocyanine thin film transistors. Journal of Applied Physics, 2009, 106, .	1.1	26
39	First-order reversal curve measurements of the metal-insulator transition in VO_{2-x} Signatures of persistent metallic domains. Physical Review B. 2009, 79, .	1.1	89
40	Bilayer processing for an enhanced organic-electrode contact in ultrathin bottom contact organic transistors. Applied Physics Letters, 2008, 92, 193311.	1.5	24
41	Multiple Avalanches across the Metal-Insulator Transition of Vanadium Oxide Nanoscaled Junctions. Physical Review Letters, 2008, 101, 026404.	2.9	120
42	Gas Sensing Mechanism in Chemiresistive Cobalt and Metal-Free Phthalocyanine Thin Films. Journal of the American Chemical Society, 2007, 129, 5640-5646.	6.6	199
43	The superconductor proximity effect in Au/YBa ₂ Cu ₃ O ₇ bilayer films: the role of order parameter anisotropy. Microelectronics Journal, 2005, 36, 539-542.	1.1	1
44	Quantitative structural analysis of organic thin films: An x-ray diffraction study. Physical Review B, 2005, 72, .	1.1	61
45	Anomalous Proximity Effect in Gold Coated (110)YBa ₂ Cu ₃ O ₇ Films: Penetration of the Andreev Bound States. Physical Review Letters, 2004, 93, 157001.	2.9	12
46	Proximity Effect in Gold-Coated YBa ₂ Cu ₃ O ₇ Films Studied by Scanning Tunneling Spectroscopy. Physical Review Letters, 2004, 92, 017003.	2.9	27
47	Tunneling and magnetic characteristics of superconducting ZrB ₁₂ single crystals. Physical Review B, 2004, 69, .	1.1	45
48	Manifestation of the Verwey transition in the tunneling spectra of magnetite nanocrystals. Europhysics Letters, 2003, 64, 98-103.	0.7	27
49	Scanning tunneling spectroscopy of a-axis YBa ₂ Cu ₃ O ₇ films: k-selectivity and the shape of the superconductor gap. Europhysics Letters, 2003, 62, 883-889.	0.7	18
50	Local and macroscopic tunneling spectroscopy of Y _{1-x} CaxBa ₂ Cu ₃ O ₇ films: Evidence for a doping-dependent isoridxy component in the order parameter. Physical Review B, 2002, 65, .	1.1	60
51	Observation of the Verwey Transition in Fe ₃ O ₄ Nanocrystals. Materials Research Society Symposia Proceedings, 2002, 746, 1.	0.1	5
52	Correlation of tunneling spectra with surface nanomorphology and doping in thin YBa ₂ Cu ₃ O ₇ films. Europhysics Letters, 2001, 54, 675-681.	0.7	35
53	Spatial variations of the superconductor gap structure in MgB ₂ /Al composite. Journal of Physics Condensed Matter, 2001, 13, L503-L508.	0.7	17
54	Tunneling spectroscopy and magnetization measurements of the superconducting properties of MgB ₂ . Physical Review B, 2001, 63, .	1.1	102

#	ARTICLE	IF	CITATIONS
55	Localized High-T _c Superconductivity on the Surface of Na-Doped WO ₃ . Journal of Superconductivity and Novel Magnetism, 2000, 13, 855-861.	0.5	37
56	Evidence for localized high- T _c superconducting regions on the surface of Na-doped WO ₃ . Europhysics Letters, 2000, 51, 564-570.	0.7	45
57	Effect of Focused Ion Beam Irradiation on Superconducting Nanowires. Journal of Superconductivity and Novel Magnetism, 0, , 1.	0.8	1