

Amos Sharoni

List of Publications by Year in descending order

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57
papers

1,885
citations

257450

24
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254184

43
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58
all docs

58
docs citations

58
times ranked

2680
citing authors

#	ARTICLE	IF	CITATIONS
1	Role of Thermal Heating on the Voltage Induced Insulator-Metal Transition in VO . Physical Review Letters, 2013, 110, 056601.	7.8	238
2	Gas Sensing Mechanism in Chemiresistive Cobalt and Metal-Free Phthalocyanine Thin Films. Journal of the American Chemical Society, 2007, 129, 5640-5646.	13.7	199
3	Multiple Avalanches across the Metal-Insulator Transition of Vanadium Oxide Nanoscaled Junctions. Physical Review Letters, 2008, 101, 026404.	7.8	120
4	Tunneling spectroscopy and magnetization measurements of the superconducting properties of MgB_2 . Physical Review B, 2001, 63, .	3.2	102
5	First-order reversal curve measurements of the metal-insulator transition in VO . Signatures of persistent metallic domains. Physical Review B, 2009, 79, .	3.2	89
6	Topographic cues of nano-scale height direct neuronal growth pattern. Biotechnology and Bioengineering, 2012, 109, 1791-1797.	3.3	77
7	Control of spin injection by direct current in lateral spin valves. Physical Review B, 2009, 79, .	3.2	72
8	Quantitative structural analysis of organic thin films: An x-ray diffraction study. Physical Review B, 2005, 72, .	3.2	61
9	Local and macroscopic tunneling spectroscopy of $Y_{1-x}Ca_xBa_2Cu_3O_{7-\delta}$ films: Evidence for a doping-dependent isoridixy component in the order parameter. Physical Review B, 2002, 65, .	3.2	60
10	Spin-dependent Seebeck effect in non-local spin valve devices. Applied Physics Letters, 2012, 100, .	3.3	54
11	Surface enhanced spin-flip scattering in lateral spin valves. Applied Physics Letters, 2010, 96, .	3.3	49
12	Magnetic micro-device for manipulating PC12 cell migration and organization. Lab on A Chip, 2015, 15, 2030-2036.	6.0	49
13	Evidence for localized high- T C superconducting regions on the surface of Na-doped WO_3 . Europhysics Letters, 2000, 51, 564-570.	2.0	45
14	Tunneling and magnetic characteristics of superconducting ZrB_2 single crystals. Physical Review B, 2004, 69, .	3.2	45
15	Magnetic Targeting of Growth Factors Using Iron Oxide Nanoparticles. Nanomaterials, 2018, 8, 707.	4.1	45
16	Interactions of neurons with topographic nano cues affect branching morphology mimicking neuron-neuron interactions. Journal of Molecular Histology, 2012, 43, 437-447.	2.2	38
17	Localized High-Tc Superconductivity on the Surface of Na-Doped WO_3 . Journal of Superconductivity and Novel Magnetism, 2000, 13, 855-861.	0.5	37
18	Correlation of tunneling spectra with surface nanomorphology and doping in thin $YBa_2Cu_3O_{7-\delta}$ films. Europhysics Letters, 2001, 54, 675-681.	2.0	35

#	ARTICLE	IF	CITATIONS
19	Rampâ€Reversal Memory and Phaseâ€Boundary Scarring in Transition Metal Oxides. <i>Advanced Materials</i> , 2017, 29, 1605029.	21.0	32
20	Raman scattering and electrical resistance of highly disordered graphene. <i>Physical Review B</i> , 2015, 91, .	3.2	29
21	Manifestation of the Verwey transition in the tunneling spectra of magnetite nanocrystals. <i>Europhysics Letters</i> , 2003, 64, 98-103.	2.0	27
22	Proximity Effect in Gold-Coated $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ Films Studied by Scanning Tunneling Spectroscopy. <i>Physical Review Letters</i> , 2004, 92, 017003.	7.8	27
23	Ambient induced degradation and chemically activated recovery in copper phthalocyanine thin film transistors. <i>Journal of Applied Physics</i> , 2009, 106, .	2.5	26
24	Ultra-thin filaments revealed by the dielectric response across the metal-insulator transition in VO_2 . <i>Applied Physics Letters</i> , 2013, 102, .	3.3	25
25	Bilayer processing for an enhanced organic-electrode contact in ultrathin bottom contact organic transistors. <i>Applied Physics Letters</i> , 2008, 92, 193311.	3.3	24
26	Enhanced superconducting vortex pinning with disordered nanomagnetic arrays. <i>Physical Review B</i> , 2010, 82, .	3.2	23
27	Localization of Charge Carriers in Monolayer Graphene Gradually Disordered by Ion Irradiation. <i>Graphene</i> , 2015, 04, 45-53.	1.0	23
28	Effect of annealing on Raman spectra of monolayer graphene samples gradually disordered by ion irradiation. <i>Journal of Applied Physics</i> , 2017, 121, 114301.	2.5	19
29	Scanning tunneling spectroscopy of a-axis $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ films: k -selectivity and the shape of the superconductor gap. <i>Europhysics Letters</i> , 2003, 62, 883-889.	2.0	18
30	Ultrathin Films of VO_2 on r -Cut Sapphire Achieved by Postdeposition Etching. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 14863-14870.	8.0	18
31	Spatial variations of the superconductor gap structure in MgB_2/Al composite. <i>Journal of Physics Condensed Matter</i> , 2001, 13, L503-L508.	1.8	17
32	High resolution Hall measurements across the VO_2 metal-insulator transition reveal impact of spatial phase separation. <i>Scientific Reports</i> , 2016, 6, 19496.	3.3	16
33	Hopping magnetoresistance in ion irradiated monolayer graphene. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2016, 76, 158-163.	2.7	16
34	Comparing Transcriptome Profiles of Neurons Interfacing Adjacent Cells and Nanopatterned Substrates Reveals Fundamental Neuronal Interactions. <i>Nano Letters</i> , 2019, 19, 1451-1459.	9.1	15
35	Anomalous Proximity Effect in Gold Coated $(110)\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ Films: Penetration of the Andreev Bound States. <i>Physical Review Letters</i> , 2004, 93, 157001.	7.8	12
36	Extracting magnetic anisotropy energies in Co/Pd multilayers via refinement analysis of the full magnetoresistance curves. <i>Journal of Applied Physics</i> , 2014, 115, 173911.	2.5	10

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37	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, .	2.5	10
38	Current-induced SQUID behavior of superconducting Nb nano-rings. Scientific Reports, 2016, 6, 28320.	3.3	10
39	Charge carrier transport asymmetry in monolayer graphene. Physical Review B, 2017, 96, .	3.2	8
40	Anomalous, hysteretic, transverse magnetoresistance in superconducting thin films with magnetic vortex arrays. Applied Physics Letters, 2009, 94, 252507.	3.3	7
41	Magnetic Organization of Neural Networks via Micro-Patterned Devices. Advanced Materials Interfaces, 2020, 7, 2000055.	3.7	7
42	DNA origami based superconducting nanowires. AIP Advances, 2021, 11, .	1.3	7
43	Patterning of epitaxial VO ₂ microstructures by a high-temperature lift-off process. Materials Research Express, 2014, 1, 046302.	1.6	6
44	Observation of the Verwey Transition in Fe ₃ O ₄ Nanocrystals. Materials Research Society Symposia Proceedings, 2002, 746, 1.	0.1	5
45	Nano-fabricated perpendicular magnetic anisotropy electrodes for lateral spin valves and observation of Nernst-Ettingshausen related signals. Journal of Applied Physics, 2014, 116, 073905.	2.5	5
46	Resolving transitions in the mesoscale domain configuration in VO ₂ using laser speckle pattern analysis. Scientific Reports, 2014, 4, 6259.	3.3	5
47	Little-Parks oscillations in superconducting ring with Josephson junctions. Journal of Physics: Conference Series, 2018, 969, 012047.	0.4	3
48	Current-Induced Crossover of Flux Periodicity from $h/2e$ to h/e in a Superconducting Nb Nano-Ring. Nano Letters, 2018, 18, 7851-7855.	9.1	3
49	Irradiation-induced metal-insulator transition in monolayer graphene. FlatChem, 2019, 14, 100084.	5.6	3
50	Twinned nanostructure of VO_2 thin films grown on r-cut sapphire. Physical Review B, 2020, 102, .	3.4	3
51	Enhancement of photon detection in superconducting nanowire single photon detector exposed to oscillating magnetic field. Applied Physics Letters, 2021, 118, .	3.3	3
52	Direct Formation of Carbocyanine J-Aggregates in Organic Solvent. Journal of Physical Chemistry C, 2019, 123, 19087-19093.	3.1	2
53	The superconductor proximity effect in Au/YBa ₂ Cu ₃ O _{7-δ} bilayer films: the role of order parameter anisotropy. Microelectronics Journal, 2005, 36, 539-542.	2.0	1
54	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.	2.3	1

#	ARTICLE	IF	CITATIONS
55	Fabrication of Magnetic Platforms for Micron-Scale Organization of Interconnected Neurons. Journal of Visualized Experiments, 2021, , .	0.3	1
56	Effect of Focused Ion Beam Irradiation on Superconducting Nanowires. Journal of Superconductivity and Novel Magnetism, 0, , 1.	1.8	1
57	High temperature coefficient of resistance achieved by ion beam assisted sputtering with no heat treatment in $\text{Y}_{1-x}\text{M}_x\text{O}_2$ ($\text{M} = \text{Nb, Hf}$). Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2015, 33, 061515.	1	0