

Oded Millo

List of Publications by Year in descending order

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78
papers

4,085
citations

147801

31
h-index

114465

63
g-index

79
all docs

79
docs citations

79
times ranked

5439
citing authors

#	ARTICLE	IF	CITATIONS
1	Heavily Doped Semiconductor Nanocrystal Quantum Dots. <i>Science</i> , 2011, 332, 77-81.	12.6	657
2	Identification of atomic-like electronic states in indium arsenide nanocrystal quantum dots. <i>Nature</i> , 1999, 400, 542-544.	27.8	551
3	Size-Dependent Tunneling and Optical Spectroscopy of CdSe Quantum Rods. <i>Physical Review Letters</i> , 2002, 89, 086801.	7.8	206
4	Determination of Band Offsets in Heterostructured Colloidal Nanorods Using Scanning Tunneling Spectroscopy. <i>Nano Letters</i> , 2008, 8, 2954-2958.	9.1	179
5	Tuning Energetic Levels in Nanocrystal Quantum Dots through Surface Manipulations. <i>Nano Letters</i> , 2008, 8, 678-684.	9.1	159
6	Tunneling spectroscopy of isolated C60 molecules in the presence of charging effects. <i>Physical Review B</i> , 1997, 56, 9829-9833.	3.2	153
7	TUNNELING AND OPTICAL SPECTROSCOPY OF SEMICONDUCTOR NANOCRYSTALS. <i>Annual Review of Physical Chemistry</i> , 2003, 54, 465-492.	10.8	143
8	Imaging and Spectroscopy of Artificial-Atom States in Core/Shell Nanocrystal Quantum Dots. <i>Physical Review Letters</i> , 2001, 86, 5751-5754.	7.8	137
9	Single electron tunneling and level spectroscopy of isolated C60 molecules. <i>Journal of Applied Physics</i> , 1997, 81, 2241-2244.	2.5	90
10	Energy level tunneling spectroscopy and single electron charging in individual CdSe quantum dots. <i>Applied Physics Letters</i> , 1999, 75, 1751-1753.	3.3	87
11	long-range proximity effect in $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$. <i>Physical Review Letters</i> , 1998, 81, 107-110.	3.2	79
12	Ring Stain Effect at Room Temperature in Silver Nanoparticles Yields High Electrical Conductivity. <i>Langmuir</i> , 2005, 21, 10264-10267.	3.5	75
13	Scanning tunneling spectroscopy of $\text{SmFeAsO}_{1-x}\text{F}_x$. Possible evidence for d-wave order-parameter symmetry. <i>Physical Review B</i> , 2000, 78, 100501.	3.2	75
14	Scanning tunneling spectroscopy of InAs nanocrystal quantum dots. <i>Physical Review B</i> , 2000, 61, 16773-16777.	3.2	73
15	What Is the Mechanism of MAPb ₃ p-Doping by I ₂ ? Insights from Optoelectronic Properties. <i>ACS Energy Letters</i> , 2017, 2, 2408-2414.	17.4	68
16	Enhancement of the Superconducting Transition Temperature of $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$. Role of Pairing and Phase Stiffness. <i>Physical Review Letters</i> , 2008, 101, 057005.	7.8	65
17	Zero-Dimensional and Quasi One-Dimensional Effects in Semiconductor Nanorods. <i>Nano Letters</i> , 2004, 4, 1073-1077.	9.1	55
18	Mobility-Lifetime Products in MAPb ₃ Films. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 5219-5226.	4.6	55

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19	Control of charging in resonant tunneling through InAs nanocrystal quantum dots. Applied Physics Letters, 2001, 79, 117-119.	3.3	52
20	Level Structure of InAs Quantum Dots in Two-Dimensional Assemblies. Nano Letters, 2006, 6, 2201-2205.	9.1	51
21	Fullerene-Like (IF) Nb _x Mo _{1-x} S ₂ Nanoparticles. Journal of the American Chemical Society, 2007, 129, 12549-12562.	13.7	49
22	Compositional and electrical properties of line and planar defects in Cu(In,Ga)Se ₂ thin films for solar cells – a review. Physica Status Solidi - Rapid Research Letters, 2016, 10, 363-375.	2.4	47
23	Annihilation of structural defects in chalcogenide absorber films for high-efficiency solar cells. Energy and Environmental Science, 2016, 9, 1818-1827.	30.8	42
24	Electromigration-induced flow of islands and voids on the Cu(001) surface. Physical Review B, 2000, 61, 4975-4982.	3.2	39
25	Evidence for crossed Andreev reflections in bilayers of (100)YBa ₂ Cu ₃ O _{7-δ} and the itinerant ferromagnet SrRuO ₃ . Physical Review B, 2006, 74, .	3.2	39
26	Can we use <i>time-resolved</i> measurements to get <i>steady-state</i> transport data for halide perovskites?. Journal of Applied Physics, 2018, 124, .	2.5	39
27	Magnetic field dependence of the proximity-induced triplet superconductivity at ferromagnet/superconductor interfaces. Physical Review B, 2014, 89, .	3.2	36
28	Direct Evaluation of the Quantum Confinement Effect in Single Isolated Ge Nanocrystals. Journal of Physical Chemistry Letters, 2015, 6, 3396-3402.	4.6	36
29	Role of Exchange Interactions in the Magnetic Response and Intermolecular Recognition of Chiral Molecules. Nano Letters, 2020, 20, 7077-7086.	9.1	35
30	Magnetic-related States and Order Parameter Induced in a Conventional Superconductor by Nonmagnetic Chiral Molecules. Nano Letters, 2019, 19, 5167-5175.	9.1	34
31	Signature of proximity-induced $p_x + ip_y$ triplet pairing in the doped topological insulator Bi ₂ Se ₃ by the s-wave superconductor NbN. Europhysics Letters, 2013, 103, 67010.	2.0	33
32	3D strain-induced superconductivity in La ₂ CuO _{4+δ} using a simple vertically aligned nanocomposite approach. Science Advances, 2019, 5, eaav5532.	10.3	31
33	Photoluminescence through in-gap states in phenylacetylene functionalized silicon nanocrystals. Nanoscale, 2016, 8, 7849-7853.	5.6	30
34	Dielectric Confinement and Excitonic Effects in Two-Dimensional Nanoplatelets. ACS Nano, 2020, 14, 8257-8265.	14.6	29
35	Anomalous Temperature Dependent Transport through Single Colloidal Nanorods Strongly Coupled to Metallic Leads. Nano Letters, 2009, 9, 3671-3675.	9.1	28
36	Proximity Effect in Gold-Coated YBa ₂ Cu ₃ O _{7-δ} Films Studied by Scanning Tunneling Spectroscopy. Physical Review Letters, 2004, 92, 017003.	7.8	27

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37	Size-dependent donor and acceptor states in codoped Si nanocrystals studied by scanning tunneling spectroscopy. <i>Nanoscale</i> , 2017, 9, 17884-17892.	5.6	27
38	Rhodium growth on Cu ₂ S nanocrystals yielding hybrid nanoscale inorganic cages and their synergistic properties. <i>CrystEngComm</i> , 2014, 16, 9506-9512.	2.6	26
39	Transport and Charging in Single Semiconductor Nanocrystals Studied by Conductance Atomic Force Microscopy. <i>Nano Letters</i> , 2004, 4, 103-108.	9.1	23
40	Single-Particle Studies of Band Alignment Effects on Electron Transfer Dynamics from Semiconductor Hetero-nanostructures to Single-Walled Carbon Nanotubes. <i>ACS Nano</i> , 2012, 6, 176-182.	14.6	23
41	Evidence for induced magnetization in superconductor-ferromagnet heterostructures: A scanning tunneling spectroscopy study. <i>Physical Review B</i> , 2009, 79, .	3.2	22
42	On the influence of multiple cations on the in-gap states and phototransport properties of iodide-based halide perovskites. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 24444-24452.	2.8	22
43	Proximity-Induced Pseudogap: Evidence for Preformed Pairs. <i>Physical Review Letters</i> , 2009, 103, 197003.	7.8	20
44	Hydroxyl Functional Groups in Two-Dimensional Dionâ€“Jacobson Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2022, 7, 217-225.	17.4	20
45	Electrical Current Switching in Single CdSe Nanorods. <i>Nano Letters</i> , 2010, 10, 2416-2420.	9.1	19
46	Increased Superconducting Transition Temperature of a Niobium Thin Film Proximity Coupled to Gold Nanoparticles Using Linking Organic Molecules. <i>Physical Review Letters</i> , 2012, 108, 107004.	7.8	19
47	Unconventional order parameter induced by helical chiral molecules adsorbed on a metal proximity coupled to a superconductor. <i>Physical Review B</i> , 2018, 98, .	3.2	19
48	Correlation between Ferromagnetic Layer Easy Axis and the Tilt Angle of Self Assembled Chiral Molecules. <i>Molecules</i> , 2020, 25, 6036.	3.8	19
49	Transition from zero-dimensional to one-dimensional behavior in InAs and CdSe nanorods. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2005, 26, 1-8.	2.7	17
50	Electronic properties of hybrid Cu ₂ S/Ru semiconductor/metallic-cage nanoparticles. <i>Nanotechnology</i> , 2012, 23, 505710.	2.6	17
51	Copper Sulfide Nanocrystal Level Structure and Electrochemical Functionality towards Sensing Applications. <i>ChemPhysChem</i> , 2016, 17, 675-680.	2.1	17
52	Penetration of Andreev bound states into the ferromagnet in aSrRuO ₃ âˆ“(110)YBa ₂ Cu ₃ O ₇ âˆ“bilayer: A scanning tunneling spectroscopy study. <i>Physical Review B</i> , 2007, 76, .	3.2	14
53	Interplay between friction and spin-orbit coupling as a source of spin polarization. <i>Physical Review B</i> , 2021, 104, .	3.2	14
54	Anomalous Proximity Effect in Gold Coated (110)YBa ₂ Cu ₃ O ₇ âˆ“Films: Penetration of the Andreev Bound States. <i>Physical Review Letters</i> , 2004, 93, 157001.	7.8	12

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55	Formation of Au-Silane Bonds. Journal of Nanotechnology, 2012, 2012, 1-8.	3.4	12
56	Grafting Poly(3-hexylthiophene) from Silicon Nanocrystal Surfaces: Synthesis and Properties of a Functional Hybrid Material with Direct Interfacial Contact. Angewandte Chemie - International Edition, 2016, 55, 7393-7397.	13.8	12
57	Interior and Edge Magnetization in Thin Exfoliated CrGeTe ₃ Films. Nano Letters, 2022, 22, 3165-3172.	9.1	12
58	Proximity Effect through Chiral Molecules in Nb-Graphene-Based Devices. Advanced Materials Technologies, 2018, 3, 1700300.	5.8	11
59	Unconventional Meissner screening induced by chiral molecules in a conventional superconductor. Physical Review Materials, 2021, 5, .	2.4	11
60	Charge Transport in Cu ₂ S Nanocrystals Arrays: Effects of Crystallite Size and Ligand Length. Zeitschrift Fur Physikalische Chemie, 2015, 229, 179-190.	2.8	10
61	Spatial modulation of midgap states in (001) $\text{La}_{1-x}\text{Mn}_x\text{O}_3$ thin films: Indications for antiphase ordering of the Mn^{2+} ions. Physical Review B, 2010, 81, .	3.2	9.88
62	Periodic negative differential conductance in a single metallic nanocage. Physical Review B, 2012, 86, .	3.2	9
63	Increasing the critical temperature of Nb films by chemically linking magnetic nanoparticles using organic molecules. Europhysics Letters, 2014, 108, 37006.	2.0	8
64	Dynamic Control of the Vortex Pinning Potential in a Superconductor Using Current Injection through Nanoscale Patterns. Nano Letters, 2017, 17, 2934-2939.	9.1	8
65	Electrical and chemical properties of vacancy-ordered lead free layered double perovskite nanoparticles. Nanoscale, 2022, 14, 3487-3495.	5.6	8
66	The influence of conjugated alkynyl(aryl) surface groups on the optical properties of silicon nanocrystals: photoluminescence through in-gap states. Nanotechnology, 2018, 29, 355705.	2.6	7
67	Observation of the Verwey Transition in Fe ₃ O ₄ Nanocrystals. Materials Research Society Symposia Proceedings, 2002, 746, 1.	0.1	5
68	Electronic Level Structure and Single Electron Tunneling Effects in CdSe Quantum Rods. Israel Journal of Chemistry, 2004, 44, 391-400.	2.3	5
69	What can Andreev bound states tell us about superconductors?. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2018, 376, 20140143.	3.4	5
70	Probing Molecular Transport Properties using the Superconducting Proximity Effect. Small Methods, 2017, 1, 1600034.	8.6	4
71	Universal proximity effects in hybrid superconductor-linker molecule nanoparticle systems: The effect of molecular chirality. Applied Physics Letters, 2020, 117, .	3.3	4
72	Grafting Poly(3-hexylthiophene) from Silicon Nanocrystal Surfaces: Synthesis and Properties of a Functional Hybrid Material with Direct Interfacial Contact. Angewandte Chemie, 2016, 128, 7519-7523.	2.0	3

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73	n-Type Doping of Triethylenetetramine on Single-Wall Carbon Nanotubes for Transparent Conducting Cathodes. ACS Applied Nano Materials, 2021, 4, 13279-13287.	5.0	3
74	Cryogenic scanning tunneling spectroscopy studies of inhomogeneous superconductors. Journal of Low Temperature Physics, 1997, 106, 417-422.	1.4	2
75	Electronic properties of chalcogenide semiconductor nanostructures and thin-films. , 2016, , .		1
76	Layered Siâ€Ti oxide thin films with tailored electrical and optical properties by catalytic tandem MLD-ALD. RSC Advances, 2021, 11, 35099-35109.	3.6	1
77	Proximity and single electron charging effects in granular superconductors. European Physical Journal D, 1996, 46, 749-750.	0.4	0
78	Size and shape dependent level structure in CdSe quantum rods. Materials Research Society Symposia Proceedings, 2002, 737, 174.	0.1	0