

Yossi Paltiel

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

100
papers

1,846
citations

22
h-index

39
g-index

116
ext. papers

2,590
ext. citations

8.2
avg, IF

5.55
L-index

#	Paper	IF	Citations
100	Chiral molecules and the electron spin. <i>Nature Reviews Chemistry</i> , 2019 , 3, 250-260	34.6	226
99	Separation of enantiomers by their enantiospecific interaction with achiral magnetic substrates. <i>Science</i> , 2018 , 360, 1331-1334	33.3	183
98	A chiral-based magnetic memory device without a permanent magnet. <i>Nature Communications</i> , 2013 , 4, 2256	17.4	116
97	Magnetization switching in ferromagnets by adsorbed chiral molecules without current or external magnetic field. <i>Nature Communications</i> , 2017 , 8, 14567	17.4	90
96	Local light-induced magnetization using nanodots and chiral molecules. <i>Nano Letters</i> , 2014 , 14, 6042-9	11.5	67
95	Cold denaturation induces inversion of dipole and spin transfer in chiral peptide monolayers. <i>Nature Communications</i> , 2016 , 7, 10744	17.4	62
94	Chiral Molecules and the Spin Selectivity Effect. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 3660-3666	6.4	55
93	Single Nanoparticle Magnetic Spin Memristor. <i>Small</i> , 2018 , 14, e1801249	11	48
92	Chiral spintronics. <i>Nature Reviews Physics</i> , 2021 , 3, 328-343	23.6	41
91	Magnetic Nanoplatelet-Based Spin Memory Device Operating at Ambient Temperatures. <i>Advanced Materials</i> , 2017 , 29, 1606748	24	34
90	Effect of Chiral Molecules on the Electron Spin Wavefunction at Interfaces. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 1550-1557	6.4	33
89	The Electron Spin as a Chiral Reagent. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 1653-1658	16.4	33
88	Hybrid nanocrystals-organic-semiconductor light sensor. <i>Applied Physics Letters</i> , 2008 , 92, 223112	3.4	31
87	Enantioseparation by crystallization using magnetic substrates. <i>Chemical Science</i> , 2019 , 10, 5246-5250	9.4	30
86	Nanoscale Charge Separation Using Chiral Molecules. <i>ACS Photonics</i> , 2015 , 2, 1476-1481	6.3	28
85	AFM-Based Spin-Exchange Microscopy Using Chiral Molecules. <i>Advanced Materials</i> , 2019 , 31, e1904206	24	25
84	The spin selectivity effect in chiral materials. <i>APL Materials</i> , 2021 , 9, 040902	5.7	25

83	Chiral Induced Spin Selectivity Gives a New Twist on Spin-Control in Chemistry. <i>Accounts of Chemical Research</i> , 2020 , 53, 2659-2667	24.3	24
82	Single Domain 10 nm Ferromagnetism Imprinted on Superparamagnetic Nanoparticles Using Chiral Molecules. <i>Small</i> , 2019 , 15, e1804557	11	24
81	3D strain-induced superconductivity in LaCuO using a simple vertically aligned nanocomposite approach. <i>Science Advances</i> , 2019 , 5, eaav5532	14.3	22
80	Changes in aggregation states of light-harvesting complexes as a mechanism for modulating energy transfer in desert crust cyanobacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 9481-9486	11.5	22
79	Unconventional superconductivity induced in Nb films by adsorbed chiral molecules. <i>New Journal of Physics</i> , 2016 , 18, 113048	2.9	22
78	Electric Field-Controlled Magnetization in GaAs/AlGaAs Heterostructures-Chiral Organic Molecules Hybrids. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 1139-1145	6.4	21
77	Spin-Dependent Processes Measured without a Permanent Magnet. <i>Advanced Materials</i> , 2018 , 30, e1707390	11.9	21
76	Magnetic-related States and Order Parameter Induced in a Conventional Superconductor by Nonmagnetic Chiral Molecules. <i>Nano Letters</i> , 2019 , 19, 5167-5175	11.5	19
75	Role of Exchange Interactions in the Magnetic Response and Intermolecular Recognition of Chiral Molecules. <i>Nano Letters</i> , 2020 , 20, 7077-7086	11.5	19
74	A nanoscale optical biosensor based on peptide encapsulated SWCNTs for detection of acetic acid in the gaseous phase. <i>Sensors and Actuators B: Chemical</i> , 2021 , 327, 128832	8.5	19
73	Regulating the Energy Flow in a Cyanobacterial Light-Harvesting Antenna Complex. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 1240-1247	3.4	18
72	Fast Energy Transfer in CdSe Quantum Dot Layered Structures: Controlling Coupling with Covalent-Bond Organic Linkers. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 5753-5758	3.8	18
71	Achieving Exciton Delocalization in Quantum Dot Aggregates Using Organic Linker Molecules. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 1014-1018	6.4	17
70	Self-assembling of InAs nanocrystals on GaAs: The effect of electronic coupling and embedded gold nanoparticles on the photoluminescence. <i>Applied Physics Letters</i> , 2006 , 89, 033108	3.4	17
69	InGaAs/GaAsSb Type-II superlattice based photodiodes for short wave infrared detection. <i>Infrared Physics and Technology</i> , 2017 , 84, 63-71	2.7	16
68	Analytic Model of Chiral-Induced Spin Selectivity. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 11716-11723	3.8	16
67	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	7.4	15
66	Theory of Chirality Induced Spin Selectivity: Progress and Challenges.. <i>Advanced Materials</i> , 2022 , e2106629	2.9	14

65	Room-Temperature Inter-Dot Coherent Dynamics in Multilayer Quantum Dot Materials. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 16222-16231	3.8	13
64	Asymmetric reactions induced by electron spin polarization. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 21570-21582	3.6	13
63	Chirality and Spin: A Different Perspective on Enantioselective Interactions. <i>Chimia</i> , 2018 , 72, 394-398	1.3	13
62	Concentration-based self-assembly of phycocyanin. <i>Photosynthesis Research</i> , 2017 , 134, 39-49	3.7	12
61	Nano bio optically tunable composite nanocrystalline cellulose films. <i>RSC Advances</i> , 2015 , 5, 7713-7719	3.7	12
60	Photosynthetic Energy Transfer at the Quantum/Classical Border. <i>Trends in Plant Science</i> , 2018 , 23, 497-506	3.6	12
59	Four-wave mixing and nonlinear parameter measurement in a gallium-nitride ridge waveguide. <i>Optical Materials Express</i> , 2018 , 8, 66	2.6	12
58	A Paper-Based Near-Infrared Optical Biosensor for Quantitative Detection of Protease Activity Using Peptide-Encapsulated SWCNTs. <i>Sensors</i> , 2020 , 20,	3.8	12
57	A nanoscale paper-based near-infrared optical nose (NIRON). <i>Biosensors and Bioelectronics</i> , 2021 , 172, 112763	11.8	11
56	Long-Time-Scale Magnetization Ordering Induced by an Adsorbed Chiral Monolayer on Ferromagnets. <i>ACS Nano</i> , 2021 , 15, 5574-5579	16.7	11
55	Unconventional order parameter induced by helical chiral molecules adsorbed on a metal proximity coupled to a superconductor. <i>Physical Review B</i> , 2018 , 98,	3.3	11
54	Chiral molecules-ferromagnetic interfaces, an approach towards spin controlled interactions. <i>Applied Physics Letters</i> , 2019 , 115, 133701	3.4	10
53	Coupling effects in QD dimers at sub-nanometer interparticle distance. <i>Nano Research</i> , 2020 , 13, 1071-1080	10.8	10
52	Transient Dissipative Optical Properties of Aggregated Au Nanoparticles, CdSe/ZnS Quantum Dots, and Supramolecular Nucleic Acid-Stabilized Ag Nanoclusters. <i>Journal of the American Chemical Society</i> , 2021 , 143, 17622-17632	16.4	10
51	Marine cyanobacteria tune energy transfer efficiency in their light-harvesting antennae by modifying pigment coupling. <i>FEBS Journal</i> , 2021 , 288, 980-994	5.7	10
50	Light Adaptation in Phycobilisome Antennas: Influence on the Rod Length and Structural Arrangement. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 9196-9202	3.4	9
49	Optical Multilevel Spin Bit Device Using Chiral Quantum Dots. <i>Nano Letters</i> , 2020 , 20, 8675-8681	11.5	9
48	Correlation between Ferromagnetic Layer Easy Axis and the Tilt Angle of Self Assembled Chiral Molecules. <i>Molecules</i> , 2020 , 25,	4.8	9

47	Charge-Ordered β -Helical Polypeptide Monolayers on Au(111). <i>Journal of Physical Chemistry C</i> , 2020 , 124, 5734-5739	3.8	8
46	Optical Chiral Induced Spin Selectivity XMCD Study. <i>Chimia</i> , 2018 , 72, 379-383	1.3	8
45	Properties of Self-Assembled Hybrid Organic Molecule/Quantum Dot Multilayered Structures. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 25725-25730	3.8	8
44	Helical Ordering of β -Polyalanine Molecular Layers by Interdigitation. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 612-617	3.8	8
43	Chiral Molecule-Enhanced Extinction Ratios of Quantum Dots Coupled to Random Plasmonic Structures. <i>Langmuir</i> , 2018 , 34, 3076-3081	4	7
42	Collective effects in charge transfer within a hybrid organic-inorganic system. <i>Physical Review Letters</i> , 2010 , 104, 016804	7.4	7
41	Energy Sources of the Depth-Generalist Mixotrophic Coral. <i>Frontiers in Marine Science</i> , 2020 , 7, 988	4.5	7
40	Evidence for new enantiospecific interaction force in chiral biomolecules. <i>CheM</i> , 2021 ,	16.2	7
39	Proximity Effect through Chiral Molecules in Nb α -Graphene-Based Devices. <i>Advanced Materials Technologies</i> , 2018 , 3, 1700300	6.8	6
38	Dynamic Control of the Vortex Pinning Potential in a Superconductor Using Current Injection through Nanoscale Patterns. <i>Nano Letters</i> , 2017 , 17, 2934-2939	11.5	5
37	Spin-Exciton Delocalization Enhancement in Multilayer Chiral Linker/Quantum Dot Structures. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 3858-3862	6.4	5
36	Broad-band high-gain room temperature photodetectors using semiconductor-metal nanofloret hybrids with wide plasmonic response. <i>Nanoscale</i> , 2019 , 11, 6368-6376	7.7	5
35	Features of the electrical and photoelectrical properties of nanocrystalline indium and zinc oxide films. <i>Russian Journal of Physical Chemistry B</i> , 2016 , 10, 810-815	1.2	5
34	Increasing the critical temperature of Nb films by chemically linking magnetic nanoparticles using organic molecules. <i>Europhysics Letters</i> , 2014 , 108, 37006	1.6	5
33	Confined water dynamics in a hydrated photosynthetic pigment-protein complex. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 28063-28070	3.6	4
32	Reducing Optical Losses in GaN Waveguides \square Toward an Electro-Optic Phase Modulator. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018 , 215, 1700551	1.6	4
31	Self-formed nanogap junctions for electronic detection and characterization of molecules and quantum dots. <i>RSC Advances</i> , 2017 , 7, 25861-25866	3.7	4
30	Magnetic passivation using chiral molecules. <i>Applied Physics Letters</i> , 2021 , 118, 172401	3.4	4

29	Chirality Nanosensor with Direct Electric Readout by Coupling of Nanofloret Localized Plasmons with Electronic Transport. <i>Nano Letters</i> , 2021 , 21, 6496-6503	11.5	4
28	Photosystem II core quenching in desiccated <i>Leptolyngbya ohadii</i> . <i>Photosynthesis Research</i> , 2020 , 143, 13-18	3.7	4
27	Probing Molecular-Transport Properties using the Superconducting Proximity Effect. <i>Small Methods</i> , 2017 , 1, 1600034	12.8	3
26	Simultaneous High-Purity Enantiomeric Resolution of Conglomerates Using Magnetic Substrates. <i>Crystal Growth and Design</i> , 2021 , 21, 2925-2931	3.5	3
25	Dynamic Spin-Controlled Enantioselective Catalytic Chiral Reactions. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 5469-5472	6.4	3
24	Nano Ferromagnetism: Single Domain 10 nm Ferromagnetism Imprinted on Superparamagnetic Nanoparticles Using Chiral Molecules (Small 1/2019). <i>Small</i> , 2019 , 15, 1970004	11	3
23	Interplay between friction and spin-orbit coupling as a source of spin polarization. <i>Physical Review B</i> , 2021 , 104,	3.3	3
22	Enhancement of near infrared light sensing using side-gate modulation. <i>Sensors and Actuators A: Physical</i> , 2017 , 267, 1-7	3.9	2
21	. <i>IEEE Sensors Journal</i> , 2019 , 19, 3668-3672	4	2
20	Increasing the Transition Temperature of High-TC Superconductor Thin Films by Organic Linking of Gold Nanoparticles. <i>Journal of Superconductivity and Novel Magnetism</i> , 2020 , 33, 1941-1948	1.5	2
19	Optical losses in p-type layers of GaN ridge waveguides in the IR region. <i>Applied Physics Letters</i> , 2017 , 111, 022103	3.4	2
18	Metal Organic Spin Transistor. <i>Nano Letters</i> , 2021 , 21, 8657-8663	11.5	2
17	The Electron Spin as a Chiral Reagent. <i>Angewandte Chemie</i> , 2020 , 132, 1670-1675	3.6	2
16	Selective enantiomer purification using magnetic oriented interacting microparticles. <i>Separation and Purification Technology</i> , 2020 , 239, 116501	8.3	2
15	Electronic transport through single polyaniline molecules. <i>Physical Review B</i> , 2020 , 102,	3.3	2
14	Determining the Molecular Dipole Orientation on Nanoplasmonic Structures. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 16901-16908	3.8	2
13	Sensory properties of oxide films with high concentrations of conduction electrons. <i>Russian Journal of Physical Chemistry A</i> , 2017 , 91, 572-576	0.7	1
12	Simple fabrication of SWIR detectors based on wet deposition of carbon nanotubes and quantum dots. <i>Sensors and Actuators A: Physical</i> , 2019 , 295, 469-473	3.9	1

11	Tuning Quantum Dots Coupling Using Organic Linkers with Different Vibrational Modes. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 16159-16165	3.8	1
10	Enhanced vortex pinning in Nb using proximity effect through organic molecules. <i>Journal of Physics Communications</i> , 2018 , 2, 025001	1.2	1
9	Molecular Fingerprint Detection Using Portable Water-Compatible Electronic Tunneling Spectroscopy Device. <i>Advanced Materials Interfaces</i> , 2020 , 7, 2000605	4.6	1
8	Control of magneto-optical properties of cobalt-layers by adsorption of helical polyaniline self-assembled monolayers. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 11822-11829	7.1	1
7	Structure-based Hamiltonian model for IsiA uncovers a highly robust pigment-protein complex. <i>Journal of the Royal Society Interface</i> , 2020 , 17, 20200399	4.1	1
6	Spin-Induced Organization of Cellulose Nanocrystals.. <i>Biomacromolecules</i> , 2022 ,	6.9	1
5	Unusual ZFC and FC magnetic behavior in thin Co multi-layered structure. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 428, 357-361	2.8	0
4	Universal proximity effects in hybrid superconductor-linker molecule-nanoparticle systems: The effect of molecular chirality. <i>Applied Physics Letters</i> , 2020 , 117, 242601	3.4	0
3	Magnetic oriented microparticles preparation. <i>MethodsX</i> , 2020 , 7, 100975	1.9	
2	Quantum Dot Coupling in a Vertical Transport Device under Ambient Conditions. <i>ACS Omega</i> , 2018 , 3, 6224-6229	3.9	
1	Molecular Fingerprint Detection: Molecular Fingerprint Detection Using Portable Water-Compatible Electronic Tunneling Spectroscopy Device (Adv. Mater. Interfaces 19/2020). <i>Advanced Materials Interfaces</i> , 2020 , 7, 2070106	4.6	