

Gil Markovich

List of Publications by Year in descending order

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99
papers

6,617
citations

76326

40
h-index

62596

80
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103
all docs

103
docs citations

103
times ranked

7765
citing authors

#	ARTICLE	IF	CITATIONS
1	Alkyl Phosphonate/Phosphate Coating on Magnetite Nanoparticles: A Comparison with Fatty Acids. <i>Langmuir</i> , 2001, 17, 7907-7911.	3.5	431
2	Ordered Two-Dimensional Arrays of Ferrite Nanoparticles. <i>Advanced Materials</i> , 2001, 13, 1158-1161.	21.0	375
3	Architectonic Quantum Dot Solids. <i>Accounts of Chemical Research</i> , 1999, 32, 415-423.	15.6	349
4	Photoelectron spectroscopy of Cl ⁻ , Br ⁻ , and I ⁻ solvated in water clusters. <i>Journal of Chemical Physics</i> , 1994, 101, 9344-9353.	3.0	311
5	Chirality and chiroptical effects in inorganic nanocrystal systems with plasmon and exciton resonances. <i>Chemical Society Reviews</i> , 2013, 42, 7028.	38.1	310
6	Chirality of Silver Nanoparticles Synthesized on DNA. <i>Journal of the American Chemical Society</i> , 2006, 128, 11006-11007.	13.7	303
7	Amplification of Chiroptical Activity of Chiral Biomolecules by Surface Plasmons. <i>Nano Letters</i> , 2013, 13, 1203-1209.	9.1	209
8	Plasmon-Resonance-Enhanced Absorption and Circular Dichroism. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 4855-4857.	13.8	202
9	Enantioselective control of lattice and shape chirality in inorganic nanostructures using chiral biomolecules. <i>Nature Communications</i> , 2014, 5, 4302.	12.8	187
10	Spontaneous patterning of quantum dots at the air-water interface. <i>Physical Review E</i> , 1999, 59, R6255-R6258.	2.1	171
11	Photoelectron spectroscopy of iodine anion solvated in water clusters. <i>Journal of Chemical Physics</i> , 1991, 95, 9416-9419.	3.0	159
12	Dipolar interactions in two- and three-dimensional magnetic nanoparticle arrays. <i>Physical Review B</i> , 2002, 66, .	3.2	154
13	Transparent Metal Nanowire Thin Films Prepared in Mesostructured Templates. <i>Nano Letters</i> , 2009, 9, 4246-4249.	9.1	145
14	Plasmonic Chiroptical Response of Silver Nanoparticles Interacting with Chiral Supramolecular Assemblies. <i>Journal of the American Chemical Society</i> , 2012, 134, 17807-17813.	13.7	144
15	Reversible Metal-Insulator Transition in Ordered Metal Nanocrystal Monolayers Observed by Impedance Spectroscopy. <i>Physical Review Letters</i> , 1998, 80, 3807-3810.	7.8	140
16	Probing the Interaction of Quantum Dots with Chiral Capping Molecules Using Circular Dichroism Spectroscopy. <i>Nano Letters</i> , 2016, 16, 7467-7473.	9.1	129
17	First-order metal-insulator transition and spin-polarized tunneling in Fe ₃ O ₄ nanocrystals. <i>Physical Review B</i> , 2002, 65, .	3.2	128
18	Size Dependence of Chiroptical Activity in Colloidal Quantum Dots. <i>ACS Nano</i> , 2011, 5, 9034-9043.	14.6	124

#	ARTICLE	IF	CITATIONS
19	Enantioselective Synthesis of Intrinsically Chiral Mercury Sulfide Nanocrystals. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 1275-1279.	13.8	124
20	Broad Band Enhancement of Light Absorption in Photosystem I by Metal Nanoparticle Antennas. <i>Nano Letters</i> , 2010, 10, 2069-2074.	9.1	121
21	Fabrication and Alignment of Wires in Two Dimensions. <i>Journal of Physical Chemistry B</i> , 1998, 102, 6685-6687.	2.6	106
22	The solvation of Cl ⁻ , Br ⁻ , and I ⁻ in acetonitrile clusters: Photoelectron spectroscopy and molecular dynamics simulations. <i>Journal of Chemical Physics</i> , 1996, 105, 2675-2685.	3.0	103
23	Ferromagnetism in Colloidal Mn ²⁺ -Doped ZnO Nanocrystals. <i>Journal of Physical Chemistry B</i> , 2005, 109, 20232-20236.	2.6	97
24	Growth of Gold Nanorods on Surfaces. <i>Journal of Physical Chemistry B</i> , 2003, 107, 11579-11582.	2.6	95
25	Optimizing Cobalt Ferrite Nanocrystal Synthesis Using a Magneto-optical Probe. <i>Chemistry of Materials</i> , 2006, 18, 465-470.	6.7	87
26	Chiroptical Effects in Planar Achiral Plasmonic Oriented Nanohole Arrays. <i>Nano Letters</i> , 2012, 12, 2357-2361.	9.1	84
27	Synthesis and assembly of high-quality cobalt ferrite nanocrystals prepared by a modified sol-gel technique. <i>Journal of Magnetism and Magnetic Materials</i> , 2005, 292, 11-16.	2.3	79
28	Synthesis of Single Crystal Hollow Silver Nanoparticles in a Fast Reaction-Diffusion Process. <i>Chemistry of Materials</i> , 2011, 23, 1239-1245.	6.7	72
29	Defect-induced magnetism in chemically synthesized nanoscale sheets of MgO. <i>Physical Review B</i> , 2011, 83, .	3.2	72
30	Relation between 2D/3D chirality and the appearance of chiroptical effects in real nanostructures. <i>Optics Express</i> , 2016, 24, 2242.	3.4	70
31	Synthesis of Chiral Silver Clusters on a DNA Template. <i>Journal of Physical Chemistry C</i> , 2010, 114, 15951-15954.	3.1	67
32	Control of Defects and Magnetic Properties in Colloidal HfO ₂ Nanorods. <i>Advanced Materials</i> , 2007, 19, 2608-2612.	21.0	65
33	Parallel fabrication and single-electron charging of devices based on ordered, two-dimensional phases of organically functionalized metal nanocrystals. <i>Applied Physics Letters</i> , 1997, 70, 3107-3109.	3.3	59
34	Tuning a Colloidal Synthesis to Control Co ²⁺ Doping in Ferrite Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2007, 111, 14334-14338.	3.1	59
35	Self-Assembled Metallic Nanowire-Based Vertical Organic Field-Effect Transistor. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 2149-2152.	8.0	58
36	Networks of Quantum Nanodots: The Role of Disorder in Modifying Electronic and Optical Properties. <i>Journal of Physical Chemistry B</i> , 1998, 102, 7727-7734.	2.6	53

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37	Chiroptical Activity in Silver Cholate Nanostructures Induced by the Formation of Nanoparticle Assemblies. <i>Journal of Physical Chemistry C</i> , 2013, 117, 22240-22244.	3.1	47
38	Tunnel diodes fabricated from CdSe nanocrystal monolayers. <i>Applied Physics Letters</i> , 1999, 74, 317-319.	3.3	46
39	Circular Dichroism of Single Particles. <i>ACS Photonics</i> , 2018, 5, 2151-2159.	6.6	45
40	The Size-Dependent Ferroelectric Phase Transition in BaTiO ₃ Nanocrystals Probed by Surface Plasmons. <i>ACS Nano</i> , 2011, 5, 507-515.	14.6	43
41	Aluminum Nanoparticles with Hot Spots for Plasmon-Induced Circular Dichroism of Chiral Molecules in the UV Spectral Interval. <i>Advanced Optical Materials</i> , 2017, 5, 1700069.	7.3	43
42	Spontaneous and directed symmetry breaking in the formation of chiral nanocrystals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 11159-11164.	7.1	41
43	Enhancement of Magneto-Optical Effects in Magnetite Nanocrystals Near Gold Surfaces. <i>Journal of Physical Chemistry B</i> , 2002, 106, 9195-9197.	2.6	39
44	Chiroptical Study of Plasmon-Molecule Interaction: The Case of Interaction of Glutathione with Silver Nanocubes. <i>Journal of Physical Chemistry C</i> , 2015, 119, 17111-17116.	3.1	38
45	Enhancement of Circular Dichroism of a Chiral Material by Dielectric Nanospheres. <i>Journal of Physical Chemistry C</i> , 2019, 123, 5017-5022.	3.1	38
46	Formation of Gold-Silver Nanowires in Thin Surfactant Solution Films. <i>Langmuir</i> , 2006, 22, 867-870.	3.5	37
47	Growth of Colloidal Gold Nanostars and Nanowires Induced by Palladium Doping. <i>Langmuir</i> , 2007, 23, 1496-1499.	3.5	37
48	Complete polarimetry on the asymmetric transmission through subwavelength hole arrays. <i>Optics Express</i> , 2014, 22, 13719.	3.4	36
49	Orientation-Sensitive Peptide-Induced Plasmonic Circular Dichroism in Silver Nanocubes. <i>Journal of Physical Chemistry C</i> , 2016, 120, 12751-12756.	3.1	35
50	The solvation of iodine anions in water clusters: PES studies. <i>Zeitschrift für Physik D-Atoms Molecules and Clusters</i> , 1993, 26, 98-100.	1.0	34
51	Seed Concentration Control of Metal Nanowire Diameter. <i>Nano Letters</i> , 2012, 12, 5552-5558.	9.1	33
52	Bound Delocalized Excited States in Xen Clusters. <i>Physical Review Letters</i> , 1997, 79, 3391-3394.	7.8	32
53	Highly defective MgO nanosheets from colloidal self-assembly. <i>Journal of Materials Chemistry</i> , 2011, 21, 9532.	6.7	29
54	Charge transfer excitations in the photoelectron spectrum of Cl-NH ₃ : Experiment and calculation. <i>Journal of Chemical Physics</i> , 1993, 99, 6201-6204.	3.0	28

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55	Manifestation of the Verwey transition in the tunneling spectra of magnetite nanocrystals. <i>Europhysics Letters</i> , 2003, 64, 98-103.	2.0	27
56	Enantiomeric Control of Intrinsically Chiral Nanocrystals. <i>Advanced Materials</i> , 2020, 32, e1905594.	21.0	27
57	Chiral Bioinspired Plasmonics: A Paradigm Shift for Optical Activity and Photochemistry. <i>ACS Photonics</i> , 2022, 9, 2219-2236.	6.6	26
58	UV induced formation of transparent Au@Ag nanowire mesh film for repairable OLED devices. <i>Journal of Materials Chemistry</i> , 2012, 22, 24042.	6.7	23
59	On-Surface Formation of Metal Nanowire Transparent Top Electrodes on CdSe Nanowire Array-Based Photoconductive Devices. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 3157-3162.	8.0	22
60	Inter-particle spin-polarized tunneling in arrays of magnetite nanocrystals. <i>Journal of Magnetism and Magnetic Materials</i> , 2009, 321, 1933-1938.	2.3	21
61	Tracking the Verwey Transition in Single Magnetite Nanocrystals by Variable-Temperature Scanning Tunneling Microscopy. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 1661-1666.	4.6	20
62	Determination of Handedness in a Single Chiral Nanocrystal via Circularly Polarized Luminescence. <i>ACS Nano</i> , 2019, 13, 601-608.	14.6	20
63	Chiral Photomelting of DNA-Nanocrystal Assemblies Utilizing Plasmonic Photoheating. <i>Nano Letters</i> , 2021, 21, 7298-7308.	9.1	20
64	Ferroelectric effects in individual BaTiO ₃ nanocrystals investigated by electron holography. <i>Physical Review B</i> , 2012, 85, .	3.2	18
65	Photoelectron Spectroscopic Study of Charge-Transfer States in Clusters. <i>The Journal of Physical Chemistry</i> , 1994, 98, 3550-3553.	2.9	16
66	Surface-Enhanced Infrared Absorption and Amplified Spectra on Planar Silver Halide Fiber. <i>Journal of Physical Chemistry B</i> , 2004, 108, 12633-12636.	2.6	16
67	Magnetization dynamics in arrays of strongly interacting magnetic nanocrystals. <i>Journal of Chemical Physics</i> , 2005, 123, 204715.	3.0	15
68	Surface-Enhanced Infrared Absorption of p-Nitrobenzoic Acid on Planar Silver Halide Fiber. <i>Journal of Physical Chemistry B</i> , 2004, 108, 12873-12876.	2.6	14
69	Thin-Film Infrared Spectroscopy of Acetonitrile. <i>ChemPhysChem</i> , 2007, 8, 2513-2519.	2.1	13
70	Float and Compress: Honeycomb-like Array of a Highly Stable Protein Scaffold. <i>Langmuir</i> , 2009, 25, 5226-5229.	3.5	13
71	Growth of Au/Ag nanowires in thin surfactant solution films: An electron microscopy study. <i>Journal of Colloid and Interface Science</i> , 2007, 314, 304-309.	9.4	11
72	Chiral Ligand-Induced Circular Dichroism in Excitonic Absorption of Colloidal Quantum Dots. <i>Israel Journal of Chemistry</i> , 2012, 52, 1104-1110.	2.3	11

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73	Patterning Metal Nanowire-Based Transparent Electrodes by Seed Particle Printing. ACS Omega, 2017, 2, 7584-7592.	3.5	10
74	Time-resolved circularly polarized luminescence of Eu ³⁺ -based systems. Chirality, 2021, 33, 124-133.	2.6	9
75	A Kinetic Isotope Effect in the Formation of Lanthanide Phosphate Nanocrystals. Journal of the American Chemical Society, 2022, 144, 9451-9457.	13.7	9
76	Molecule-Enhanced Surface-Enhanced Infrared Absorption Spectroscopy (MOSEIRA). ChemPhysChem, 2007, 8, 2506-2512.	2.1	7
77	Magneto-resistive telegraph noise in Langmuir-Blodgett films of colloidal magnetite nanocrystals as seen via scanning tunneling microscopy. Physical Review B, 2009, 80, .	3.2	6
78	<i>N</i> -Methylformamide, a Hyperplectic Model for Peptides in Thin Film Infrared Spectroscopy on Planar AgX. Journal of Physical Chemistry B, 2009, 113, 5622-5632.	2.6	6
79	Surface Electrostatic Immobilization of Thin Layers of Water on Silver Halide. Experimental and Calculated Infrared Spectrum of Cyclic Trimer of Water and a Ponderal Isotope Effect. Langmuir, 2012, 28, 13208-13217.	3.5	6
80	Probing magnetization dynamics in individual magnetite nanocrystals using magneto-resistive scanning tunneling microscopy. Physical Review B, 2015, 92, .	3.2	6
81	Contact-free conductivity probing of metal nanowire films using THz reflection spectroscopy. Nanotechnology, 2019, 30, 215702.	2.6	6
82	Metal nanowires grown <i>in situ</i> on polymeric fibres for electronic textiles. Nanoscale Advances, 2022, 4, 1368-1374.	4.6	6
83	Colloidal Synthesis of Crystalline Aluminum Nanoparticles for UV Plasmonics. ACS Photonics, 2022, 9, 880-887.	6.6	6
84	Observation of the Verwey Transition in Fe ₃ O ₄ Nanocrystals. Materials Research Society Symposia Proceedings, 2002, 746, 1.	0.1	5
85	The stabilization of a single domain in free-standing ferroelectric nanocrystals. Journal of Physics Condensed Matter, 2014, 26, 122202.	1.8	4
86	Iron assisted growth of copper-tipped multi-walled carbon nanotubes. Nanotechnology, 2007, 18, 495602.	2.6	3
87	Solution Monolayer Epitaxy for Tunable Atomically Sharp Oxide Interfaces. Advanced Materials Interfaces, 2017, 4, 1700688.	3.7	3
88	Nanocrystals as Model Systems for Studying the Interplay Between Crystallization and Chirality. Israel Journal of Chemistry, 0, , .	2.3	3
89	Probing magnetization dynamics of strongly interacting magnetic nanoparticles through magneto-resistive current noise measurements. Journal Physics D: Applied Physics, 2010, 43, 485003.	2.8	2
90	The School of Chemistry at Tel Aviv University Celebrates Its 50th Jubilee. Israel Journal of Chemistry, 2015, 55, 102-113.	2.3	2

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91	Optically Active and Chiral Semiconductor Nanocrystals. , 0, , 85-98.		2
92	Extraordinary Hall-effect in colloidal magnetic nanoparticle films. Journal of Magnetism and Magnetic Materials, 2017, 426, 178-182.	2.3	2
93	The Solvation of Halogen Anions in Water Clusters. Jerusalem Symposia on Quantum Chemistry and Biochemistry, 1994, , 13-19.	0.2	2
94	Magneto-transport and magnetization dynamics in magnetic nanoparticle assemblies. MRS Bulletin, 2013, 38, 939-944.	3.5	1
95	Chiral Nanostructures with Plasmon and Exciton Resonances. , 2014, , 1-55.		1
96	Foreword by the Guest Editors: Surfaced Enhanced Spectroscopies. Israel Journal of Chemistry, 2006, 46, NA-NA.	2.3	0
97	Scanning Tunneling Spectroscopy Study of Temperatureâ€Dependent Magnetization Switching Dynamics in Magnetic Nanoparticle Arrays. Israel Journal of Chemistry, 2008, 48, 81-86.	2.3	0
98	Flow-Directed Growth of Aligned Metal Nanowire Films: Toward Light-Polarizing Transparent Conductors. ACS Applied Nano Materials, 2019, 2, 3073-3080.	5.0	0
99	Complex Structures in Thin Films Detected By Infrared Spectroscopy. FASEB Journal, 2008, 22, 622.1.	0.5	0