

Gil Markovich

List of Publications by Year in descending order

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Version: 2024-02-01

99
papers

6,617
citations

76326

40
h-index

62596

80
g-index

103
all docs

103
docs citations

103
times ranked

7765
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 1 | Metal nanowires grown <i>in situ</i> on polymeric fibres for electronic textiles. <i>Nanoscale Advances</i> , 2022, 4, 1368-1374. | 4.6 | 6 |
| 2 | Colloidal Synthesis of Crystalline Aluminum Nanoparticles for UV Plasmonics. <i>ACS Photonics</i> , 2022, 9, 880-887. | 6.6 | 6 |
| 3 | A Kinetic Isotope Effect in the Formation of Lanthanide Phosphate Nanocrystals. <i>Journal of the American Chemical Society</i> , 2022, 144, 9451-9457. | 13.7 | 9 |
| 4 | Chiral Bioinspired Plasmonics: A Paradigm Shift for Optical Activity and Photochemistry. <i>ACS Photonics</i> , 2022, 9, 2219-2236. | 6.6 | 26 |
| 5 | Chiral Photomelting of DNA-Nanocrystal Assemblies Utilizing Plasmonic Photoheating. <i>Nano Letters</i> , 2021, 21, 7298-7308. | 9.1 | 20 |
| 6 | Time-resolved circularly polarized luminescence of Eu ³⁺ -based systems. <i>Chirality</i> , 2021, 33, 124-133. | 2.6 | 9 |
| 7 | Enantiomeric Control of Intrinsically Chiral Nanocrystals. <i>Advanced Materials</i> , 2020, 32, e1905594. | 21.0 | 27 |
| 8 | 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 |
| 9 | Flow-Directed Growth of Aligned Metal Nanowire Films: Toward Light-Polarizing Transparent Conductors. <i>ACS Applied Nano Materials</i> , 2019, 2, 3073-3080. | 5.0 | 0 |
| 10 | 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 |
| 11 | Contact-free conductivity probing of metal nanowire films using THz reflection spectroscopy. <i>Nanotechnology</i> , 2019, 30, 215702. | 2.6 | 6 |
| 12 | Determination of Handedness in a Single Chiral Nanocrystal <i>via</i> Circularly Polarized Luminescence. <i>ACS Nano</i> , 2019, 13, 601-608. | 14.6 | 20 |
| 13 | Circular Dichroism of Single Particles. <i>ACS Photonics</i> , 2018, 5, 2151-2159. | 6.6 | 45 |
| 14 | 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 |
| 15 | Solution Monolayer Epitaxy for Tunable Atomically Sharp Oxide Interfaces. <i>Advanced Materials Interfaces</i> , 2017, 4, 1700688. | 3.7 | 3 |
| 16 | Patterning Metal Nanowire-Based Transparent Electrodes by Seed Particle Printing. <i>ACS Omega</i> , 2017, 2, 7584-7592. | 3.5 | 10 |
| 17 | Extraordinary Hall-effect in colloidal magnetic nanoparticle films. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 426, 178-182. | 2.3 | 2 |
| 18 | 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 |

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|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 19 | Orientation-Sensitive Peptide-Induced Plasmonic Circular Dichroism in Silver Nanocubes. Journal of Physical Chemistry C, 2016, 120, 12751-12756. | 3.1 | 35 |
| 20 | Relation between 2D/3D chirality and the appearance of chiroptical effects in real nanostructures. Optics Express, 2016, 24, 2242. | 3.4 | 70 |
| 21 | Tracking the Verwey Transition in Single Magnetite Nanocrystals by Variable-Temperature Scanning Tunneling Microscopy. Journal of Physical Chemistry Letters, 2016, 7, 1661-1666. | 4.6 | 20 |
| 22 | Probing magnetization dynamics in individual magnetite nanocrystals using magnetoresistive scanning tunneling microscopy. Physical Review B, 2015, 92, . | 3.2 | 6 |
| 23 | The School of Chemistry at Tel Aviv University Celebrates Its 50th Jubilee. Israel Journal of Chemistry, 2015, 55, 102-113. | 2.3 | 2 |
| 24 | Self-Assembled Metallic Nanowire-Based Vertical Organic Field-Effect Transistor. ACS Applied Materials & Interfaces, 2015, 7, 2149-2152. | 8.0 | 58 |
| 25 | Chiroptical Study of Plasmon-Molecule Interaction: The Case of Interaction of Glutathione with Silver Nanocubes. Journal of Physical Chemistry C, 2015, 119, 17111-17116. | 3.1 | 38 |
| 26 | The stabilization of a single domain in free-standing ferroelectric nanocrystals. Journal of Physics Condensed Matter, 2014, 26, 122202. | 1.8 | 4 |
| 27 | Enantioselective control of lattice and shape chirality in inorganic nanostructures using chiral biomolecules. Nature Communications, 2014, 5, 4302. | 12.8 | 187 |
| 28 | Complete polarimetry on the asymmetric transmission through subwavelength hole arrays. Optics Express, 2014, 22, 13719. | 3.4 | 36 |
| 29 | Chiral Nanostructures with Plasmon and Exciton Resonances. , 2014, , 1-55. | | 1 |
| 30 | Amplification of Chiroptical Activity of Chiral Biomolecules by Surface Plasmons. Nano Letters, 2013, 13, 1203-1209. | 9.1 | 209 |
| 31 | Enantioselective Synthesis of Intrinsically Chiral Mercury Sulfide Nanocrystals. Angewandte Chemie - International Edition, 2013, 52, 1275-1279. | 13.8 | 124 |
| 32 | Chiroptical Activity in Silver Cholate Nanostructures Induced by the Formation of Nanoparticle Assemblies. Journal of Physical Chemistry C, 2013, 117, 22240-22244. | 3.1 | 47 |
| 33 | Chirality and chiroptical effects in inorganic nanocrystal systems with plasmon and exciton resonances. Chemical Society Reviews, 2013, 42, 7028. | 38.1 | 310 |
| 34 | Magneto-transport and magnetization dynamics in magnetic nanoparticle assemblies. MRS Bulletin, 2013, 38, 939-944. | 3.5 | 1 |
| 35 | Seed Concentration Control of Metal Nanowire Diameter. Nano Letters, 2012, 12, 5552-5558. | 9.1 | 33 |
| 36 | Chiral Ligand-Induced Circular Dichroism in Excitonic Absorption of Colloidal Quantum Dots. Israel Journal of Chemistry, 2012, 52, 1104-1110. | 2.3 | 11 |

| # | ARTICLE | IF | CITATIONS |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 37 | On-Surface Formation of Metal Nanowire Transparent Top Electrodes on CdSe Nanowire Array-Based Photoconductive Devices. ACS Applied Materials & Interfaces, 2012, 4, 3157-3162. | 8.0 | 22 |
| 38 | 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 |
| 39 | Plasmonic Chiroptical Response of Silver Nanoparticles Interacting with Chiral Supramolecular Assemblies. Journal of the American Chemical Society, 2012, 134, 17807-17813. | 13.7 | 144 |
| 40 | UV induced formation of transparent Au@Ag nanowire mesh film for repairable OLED devices. Journal of Materials Chemistry, 2012, 22, 24042. | 6.7 | 23 |
| 41 | Ferroelectric effects in individual BaTiO ₃ nanocrystals investigated by electron holography. Physical Review B, 2012, 85, . | 3.2 | 18 |
| 42 | Chiroptical Effects in Planar Achiral Plasmonic Oriented Nanohole Arrays. Nano Letters, 2012, 12, 2357-2361. | 9.1 | 84 |
| 43 | Highly defective MgO nanosheets from colloidal self-assembly. Journal of Materials Chemistry, 2011, 21, 9532. | 6.7 | 29 |
| 44 | The Size-Dependent Ferroelectric Phase Transition in BaTiO ₃ Nanocrystals Probed by Surface Plasmons. ACS Nano, 2011, 5, 507-515. | 14.6 | 43 |
| 45 | Synthesis of Single Crystal Hollow Silver Nanoparticles in a Fast Reaction-Diffusion Process. Chemistry of Materials, 2011, 23, 1239-1245. | 6.7 | 72 |
| 46 | Size Dependence of Chiroptical Activity in Colloidal Quantum Dots. ACS Nano, 2011, 5, 9034-9043. | 14.6 | 124 |
| 47 | Defect-induced magnetism in chemically synthesized nanoscale sheets of MgO. Physical Review B, 2011, 83, . | 3.2 | 72 |
| 48 | Probing magnetization dynamics of strongly interacting magnetic nanoparticles through magnetoresistive current noise measurements. Journal Physics D: Applied Physics, 2010, 43, 485003. | 2.8 | 2 |
| 49 | Synthesis of Chiral Silver Clusters on a DNA Template. Journal of Physical Chemistry C, 2010, 114, 15951-15954. | 3.1 | 67 |
| 50 | Broad Band Enhancement of Light Absorption in Photosystem I by Metal Nanoparticle Antennas. Nano Letters, 2010, 10, 2069-2074. | 9.1 | 121 |
| 51 | Magnetoresistive telegraph noise in Langmuir-Blodgett films of colloidal magnetite nanocrystals as seen via scanning tunneling microscopy. Physical Review B, 2009, 80, . | 3.2 | 6 |
| 52 | Inter-particle spin-polarized tunneling in arrays of magnetite nanocrystals. Journal of Magnetism and Magnetic Materials, 2009, 321, 1933-1938. | 2.3 | 21 |
| 53 | N-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 |
| 54 | Float and Compress: Honeycomb-like Array of a Highly Stable Protein Scaffold. Langmuir, 2009, 25, 5226-5229. | 3.5 | 13 |

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| 55 | Transparent Metal Nanowire Thin Films Prepared in Mesostructured Templates. Nano Letters, 2009, 9, 4246-4249. | 9.1 | 145 |
| 56 | Plasmon-Resonance-Enhanced Absorption and Circular Dichroism. Angewandte Chemie - International Edition, 2008, 47, 4855-4857. | 13.8 | 202 |
| 57 | Scanning Tunneling Spectroscopy Study of Temperature-Dependent Magnetization Switching Dynamics in Magnetic Nanoparticle Arrays. Israel Journal of Chemistry, 2008, 48, 81-86. | 2.3 | 0 |
| 58 | Complex Structures in Thin Films Detected By Infrared Spectroscopy. FASEB Journal, 2008, 22, 622.1. | 0.5 | 0 |
| 59 | Tuning a Colloidal Synthesis to Control Co ²⁺ Doping in Ferrite Nanocrystals. Journal of Physical Chemistry C, 2007, 111, 14334-14338. | 3.1 | 59 |
| 60 | Growth of Colloidal Gold Nanostars and Nanowires Induced by Palladium Doping. Langmuir, 2007, 23, 1496-1499. | 3.5 | 37 |
| 61 | Control of Defects and Magnetic Properties in Colloidal HfO ₂ Nanorods. Advanced Materials, 2007, 19, 2608-2612. | 21.0 | 65 |
| 62 | Molecule-Enhanced Surface-Enhanced Infrared Absorption Spectroscopy (MOSEIRA). ChemPhysChem, 2007, 8, 2506-2512. | 2.1 | 7 |
| 63 | Thin-Film Infrared Spectroscopy of Acetonitrile. ChemPhysChem, 2007, 8, 2513-2519. | 2.1 | 13 |
| 64 | Growth of Au/Ag nanowires in thin surfactant solution films: An electron microscopy study. Journal of Colloid and Interface Science, 2007, 314, 304-309. | 9.4 | 11 |
| 65 | Iron assisted growth of copper-tipped multi-walled carbon nanotubes. Nanotechnology, 2007, 18, 495602. | 2.6 | 3 |
| 66 | Optimizing Cobalt Ferrite Nanocrystal Synthesis Using a Magneto-optical Probe. Chemistry of Materials, 2006, 18, 465-470. | 6.7 | 87 |
| 67 | Chirality of Silver Nanoparticles Synthesized on DNA. Journal of the American Chemical Society, 2006, 128, 11006-11007. | 13.7 | 303 |
| 68 | Foreword by the Guest Editors: Surface-Enhanced Spectroscopies. Israel Journal of Chemistry, 2006, 46, NA-NA. | 2.3 | 0 |
| 69 | Formation of Gold-Silver Nanowires in Thin Surfactant Solution Films. Langmuir, 2006, 22, 867-870. | 3.5 | 37 |
| 70 | Synthesis and assembly of high-quality cobalt ferrite nanocrystals prepared by a modified sol-gel technique. Journal of Magnetism and Magnetic Materials, 2005, 292, 11-16. | 2.3 | 79 |
| 71 | Magnetization dynamics in arrays of strongly interacting magnetic nanocrystals. Journal of Chemical Physics, 2005, 123, 204715. | 3.0 | 15 |
| 72 | Ferromagnetism in Colloidal Mn ²⁺ -Doped ZnO Nanocrystals. Journal of Physical Chemistry B, 2005, 109, 20232-20236. | 2.6 | 97 |

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|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 73 | Surface-Enhanced Infrared Absorption and Amplified Spectra on Planar Silver Halide Fiber. Journal of Physical Chemistry B, 2004, 108, 12633-12636. | 2.6 | 16 |
| 74 | Surface-Enhanced Infrared Absorption of p-Nitrobenzoic Acid on Planar Silver Halide Fiber. Journal of Physical Chemistry B, 2004, 108, 12873-12876. | 2.6 | 14 |
| 75 | Growth of Gold Nanorods on Surfaces. Journal of Physical Chemistry B, 2003, 107, 11579-11582. | 2.6 | 95 |
| 76 | Manifestation of the Verwey transition in the tunneling spectra of magnetite nanocrystals. Europhysics Letters, 2003, 64, 98-103. | 2.0 | 27 |
| 77 | Observation of the Verwey Transition in Fe ₃ O ₄ Nanocrystals. Materials Research Society Symposia Proceedings, 2002, 746, 1. | 0.1 | 5 |
| 78 | Enhancement of Magneto-Optical Effects in Magnetite Nanocrystals Near Gold Surfaces. Journal of Physical Chemistry B, 2002, 106, 9195-9197. | 2.6 | 39 |
| 79 | Dipolar interactions in two- and three-dimensional magnetic nanoparticle arrays. Physical Review B, 2002, 66, . | 3.2 | 154 |
| 80 | First-order metal-insulator transition and spin-polarized tunneling in Fe ₃ O ₄ nanocrystals. Physical Review B, 2002, 65, . | 3.2 | 128 |
| 81 | Alkyl Phosphonate/Phosphate Coating on Magnetite Nanoparticles: A Comparison with Fatty Acids. Langmuir, 2001, 17, 7907-7911. | 3.5 | 431 |
| 82 | Ordered Two-Dimensional Arrays of Ferrite Nanoparticles. Advanced Materials, 2001, 13, 1158-1161. | 21.0 | 375 |
| 83 | Architectonic Quantum Dot Solids. Accounts of Chemical Research, 1999, 32, 415-423. | 15.6 | 349 |
| 84 | Tunnel diodes fabricated from CdSe nanocrystal monolayers. Applied Physics Letters, 1999, 74, 317-319. | 3.3 | 46 |
| 85 | Spontaneous patterning of quantum dots at the air-water interface. Physical Review E, 1999, 59, R6255-R6258. | 2.1 | 171 |
| 86 | Networks of Quantum Nanodots: The Role of Disorder in Modifying Electronic and Optical Properties. Journal of Physical Chemistry B, 1998, 102, 7727-7734. | 2.6 | 53 |
| 87 | Fabrication and Alignment of Wires in Two Dimensions. Journal of Physical Chemistry B, 1998, 102, 6685-6687. | 2.6 | 106 |
| 88 | Reversible Metal-Insulator Transition in Ordered Metal Nanocrystal Monolayers Observed by Impedance Spectroscopy. Physical Review Letters, 1998, 80, 3807-3810. | 7.8 | 140 |
| 89 | Bound Delocalized Excited States in Xen Clusters. Physical Review Letters, 1997, 79, 3391-3394. | 7.8 | 32 |
| 90 | Parallel fabrication and single-electron charging of devices based on ordered, two-dimensional phases of organically functionalized metal nanocrystals. Applied Physics Letters, 1997, 70, 3107-3109. | 3.3 | 59 |

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| 91 | 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 |
| 92 | Photoelectron Spectroscopic Study of Charge-Transfer States in Clusters. <i>The Journal of Physical Chemistry</i> , 1994, 98, 3550-3553. | 2.9 | 16 |
| 93 | Photoelectron spectroscopy of Cl^- , Br^- , and I^- solvated in water clusters. <i>Journal of Chemical Physics</i> , 1994, 101, 9344-9353. | 3.0 | 311 |
| 94 | The Solvation of Halogen Anions in Water Clusters. <i>Jerusalem Symposia on Quantum Chemistry and Biochemistry</i> , 1994, , 13-19. | 0.2 | 2 |
| 95 | 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 |
| 96 | 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 |
| 97 | Photoelectron spectroscopy of iodine anion solvated in water clusters. <i>Journal of Chemical Physics</i> , 1991, 95, 9416-9419. | 3.0 | 159 |
| 98 | Optically Active and Chiral Semiconductor Nanocrystals. , 0, , 85-98. | | 2 |
| 99 | Nanocrystals as Model Systems for Studying the Interplay Between Crystallization and Chirality. <i>Israel Journal of Chemistry</i> , 0, , . | 2.3 | 3 |