Ernesto Joselevich

List of Publications by Year
in descending order

79 papers	7,110 citations	117625 34 h-index	62596 80 g-index
82 all docs	82 docs citations	82 times ranked	7363 citing authors

#	Article	IF	Citations
1	Holistic Determination of Optoelectronic Properties using High-Throughput Spectroscopy of Surface-Guided CsPbBr3 Nanowires. ACS Nano, 2022, , .	14.6	3
2	<i>In situ</i> imaging of temperature-dependent fast and reversible nanoscale domain switching in a single-crystal perovskite. Physical Review Materials, 2022, 6, .	2.4	2
3	Sub-nanometer mapping of strain-induced band structure variations in planar nanowire core-shell heterostructures. Nature Communications, 2022, 13, .	12.8	10
4	Deconvoluting Energy Transport Mechanisms in Metal Halide Perovskites Using CsPbBr 3 Nanowires as a Model System. Advanced Functional Materials, 2021, 31, 2010704.	14.9	12
5	Polarity-dependent nonlinear optics of nanowires under electric field. Nature Communications, 2021, 12, 3286.	12.8	11
6	Inducing ferroelastic domains in single-crystal <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>CsPbBr</mml:mi><mml:mn>3</mml:mn></mml:msub></ perovskite nanowires using atomic force microscopy. Physical Review Materials, 2021, 5, .	2.4	7
7	Aligned Growth of Semiconductor Nanowires on Scratched Amorphous Substrates. Advanced Functional Materials, 2021, 31, 2103950.	14.9	9
8	Remanent Polarization and Strong Photoluminescence Modulation by an External Electric Field in Epitaxial CsPbBr₃ Nanowires. ACS Nano, 2021, 15, 16130-16138.	14.6	5
9	Few-Wall Carbon Nanotube Coils. Nano Letters, 2020, 20, 953-962.	9.1	14
10	Kinetics and mechanism of planar nanowire growth. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 152-160.	7.1	25
11	<i>In Situ</i> Imaging of Ferroelastic Domain Dynamics in CsPbBr₃ Perovskite Nanowires by Nanofocused Scanning X-ray Diffraction. ACS Nano, 2020, 14, 15973-15982.	14.6	21
12	Large lattice distortions and size-dependent bandgap modulation in epitaxial halide perovskite nanowires. Nature Communications, 2020, 11, 489.	12.8	70
13	Synthesis and characterization of quaternary La(Sr)Sâ€“TaS₂ misfit-layered nanotubes. Beilstein Journal of Nanotechnology, 2019, 10, 1112-1124.	2.8	5
14	In-Plane Nanowires with Arbitrary Shapes on Amorphous Substrates by Artificial Epitaxy. ACS Nano, 2019, 13, 5572-5582.	14.6	22
15	Highâ€Gain 200 ns Photodetectors from Selfâ€Aligned CdSâ€“CdSe Coreâ€“Shell Nanowalls. Advanced Materials, 2018, 30, e1800413.	21.0	50
16	Surface-Guided CsPbBr₃ Perovskite Nanowires on Flat and Faceted Sapphire with Size-Dependent Photoluminescence and Fast Photoconductive Response. Nano Letters, 2018, 18, 424-433.	9.1	107
17	Nanotubes from the Misfit Compound Alloy LaS-Nb_{<i>x</i>}Ta_(1â€“<i>x</i>)S₂. Chemistry of Materials, 2018, 30, 8829-8842.	6.7	11
18	Guided Growth of Horizontal ZnS Nanowires on Flat and Faceted Sapphire Surfaces. Journal of Physical Chemistry C, 2018, 122, 12413-12420.	3.1	23

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19	Synthesis and Characterization of Nanotubes from Misfit (LnS)_{1+<i>y</i>}TaS₂ (Ln=Pr, Sm, Gd, Yb) Compounds. Chemistry - A European Journal, 2018, 24, 11354-11363.	3.3	10
20	Crystallographic Mapping of Guided Nanowires by Second Harmonic Generation Polarimetry. Nano Letters, 2017, 17, 842-850.	9.1	21
21	Surface-Guided Coreâ€"Shell ZnSe@ZnTe Nanowires as Radial pâ€"n Heterojunctions with Photovoltaic Behavior. ACS Nano, 2017, 11, 6155-6166.	14.6	35
22	Torsional Resonators Based on Inorganic Nanotubes. Nano Letters, 2017, 17, 28-35.	9.1	28
23	Guided CdSe Nanowires Parallelly Integrated into Fast Visible-Range Photodetectors. ACS Nano, 2017, 11, 213-220.	14.6	72
24	Bottom-Up Tri-gate Transistors and Submicrosecond Photodetectors from Guided CdS Nanowalls. Journal of the American Chemical Society, 2017, 139, 15958-15967.	13.7	34
25	Guided Growth of Horizontal p-Type ZnTe Nanowires. Journal of Physical Chemistry C, 2016, 120, 17087-17100.	3.1	47
26	Defect-Free Carbon Nanotube Coils. Nano Letters, 2016, 16, 2152-2158.	9.1	20
27	Guided Growth of Horizontal ZnSe Nanowires and their Integration into Highâ€Performance Blueâ€"UV Photodetectors. Advanced Materials, 2015, 27, 3999-4005.	21.0	76
28	Strain Discontinuity, Avalanche, and Memory in Carbon Nanotube Serpentine Systems. Nano Letters, 2015, 15, 5899-5904.	9.1	4
29	Guided Growth of Horizontal Single-Wall Carbon Nanotubes on M-Plane Sapphire. Journal of Physical Chemistry C, 2015, 119, 8382-8387.	3.1	11
30	Nanotube Electromechanics beyond Carbon: The Case of WS₂. ACS Nano, 2015, 9, 12224-12232.	14.6	29
31	Charge transfer between carbon nanotubes on surfaces. Nanoscale, 2015, 7, 16175-16181.	5.6	2
32	The Role of Lead (Pb) in the High Temperature Formation of MoS2 Nanotubes. Inorganics, 2014, 2, 363-376.	2.7	7
33	Twoâ€step Synthesis of MoS₂ Nanotubes using Shock Waves with Lead as Growth Promoter. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2014, 640, 1152-1158.	1.2	14
34	BCN Nanotubes as Highly Sensitive Torsional Electromechanical Transducers. Nano Letters, 2014, 14, 6132-6137.	9.1	35
35	Guided Growth of Horizontal GaN Nanowires on Quartz and Their Transfer to Other Substrates. ACS Nano, 2014, 8, 2838-2847.	14.6	29
36	Formation of Ordered vs Disordered Carbon Nanotube Serpentines on Anisotropic vs Isotropic Substrates. Journal of Physical Chemistry C, 2014, 118, 14044-14050.	3.1	8

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37	Guided Growth of Horizontal GaN Nanowires on Spinel with Orientation-Controlled Morphologies. Journal of Physical Chemistry C, 2014, 118, 19158-19164.	3.1	26
38	Guided Growth of Epitaxially Coherent GaN Nanowires on SiC. Nano Letters, 2013, 13, 5491-5496.	9.1	43
39	Field-Effect Transistors Based on WS₂ Nanotubes with High Current-Carrying Capacity. Nano Letters, 2013, 13, 3736-3741.	9.1	131
40	Self-integration of nanowires into circuits via guided growth. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 15195-15200.	7.1	66
41	Photoconductive CdSe Nanowire Arrays, Serpentines, and Loops Formed by Electrodeposition on Self-Organized Carbon Nanotubes. Journal of Physical Chemistry C, 2012, 116, 20121-20126.	3.1	12
42	Ultrahigh Torsional Stiffness and Strength of Boron Nitride Nanotubes. Nano Letters, 2012, 12, 6347-6352.	9.1	72
43	Guided Growth of Horizontal ZnO Nanowires with Controlled Orientations on Flat and Faceted Sapphire Surfaces. ACS Nano, 2012, 6, 6433-6445.	14.6	100
44	Raman study of nanotubeâ€“substrate interaction using singleâ€wall carbon nanotubes grown on crystalline quartz. Physica Status Solidi (B): Basic Research, 2011, 248, 2536-2539.	1.5	6
45	Guided Growth of Millimeter-Long Horizontal Nanowires with Controlled Orientations. Science, 2011, 333, 1003-1007.	12.6	233
46	Stacking and Registry Effects in Layered Materials: The Case of Hexagonal Boron Nitride. Physical Review Letters, 2010, 105, 046801.	7.8	283
47	Atomic Force Microscopy: Opening the Teaching Laboratory to the Nanoworld. Journal of Chemical Education, 2010, 87, 1290-1293.	2.3	29
48	â€œDrawing with Nanotubesâ€ Creating Nanowires with Complex Geometries by Pulsed Electrodeposition on Self-Organized Carbon Nanotube Patterns. Nano Letters, 2010, 10, 4742-4749.	9.1	11
49	Modulating the Electronic Properties along Carbon Nanotubes via Tubeâˆ’Substrate Interaction. Nano Letters, 2010, 10, 5043-5048.	9.1	49
50	Self-organized growth of complex nanotube patterns on crystal surfaces. Nano Research, 2009, 2, 743-754.	10.4	18
51	Self-organized nanotube serpentines. Nature Nanotechnology, 2008, 3, 195-200.	31.5	109
52	Torsional Stick-Slip Behavior in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>WS</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>Nanotubes. Physical Review Letters, 2008, 101, 195501.	7.8	68
53	Origin of torsion-induced conductance oscillations in carbon nanotubes. Physical Review B, 2008, 78, .	3.2	33
54	Nanofacet Lithography: A New Bottom-Up Approach to Nanopatterning and Nanofabrication by Soft Replication of Spontaneously Faceted Crystal Surfaces. Advanced Materials, 2007, 19, 1325-1330.	21.0	47

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55	Carbon Nanotube Synthesis and Organization. Topics in Applied Physics, 2007, , 101-165.	0.8	89
56	Orthogonal Self-Assembly of Carbon Nanotube Crossbar Architectures by Simultaneous Graphoepitaxy and Field-Directed Growth. Nano Letters, 2006, 6, 1706-1710.	9.1	80
57	Torsional electromechanical quantum oscillations in carbon nanotubes. Nature Nanotechnology, 2006, 1, 36-41.	31.5	133
58	Twisting Nanotubes: From Torsion to Chirality. ChemPhysChem, 2006, 7, 1405-1407.	2.1	23
59	Single Polymer Chains as Specific Transducers of Molecular Recognition in Scanning Probe Microscopy. Journal of the American Chemical Society, 2005, 127, 11390-11398.	13.7	14
60	Carbon Nanotube Graphoepitaxy:Â Highly Oriented Growth by Faceted Nanosteps. Journal of the American Chemical Society, 2005, 127, 11554-11555.	13.7	136
61	Chemistry and Electronics of Carbon Nanotubes Go Together. Angewandte Chemie - International Edition, 2004, 43, 2992-2994.	13.8	28
62	Atomic-Step-Templated Formation of Single Wall Carbon Nanotube Patterns. Angewandte Chemie - International Edition, 2004, 43, 6140-6143.	13.8	184
63	Cover Picture: Atomic-Step-Templated Formation of Single Wall Carbon Nanotube Patterns (Angew.) Tj ETQq1 1 0.784314 rgBT /Overlo	13.8	0
64	Electronic Structure and Chemical Reactivity of Carbon Nanotubes: A Chemist's View. ChemPhysChem, 2004, 5, 619-624.	2.1	116
65	Vectorial Growth of Metallic and Semiconducting Single-Wall Carbon Nanotubes. Nano Letters, 2002, 2, 1137-1141.	9.1	247
66	Carbon Nanotube-Based Nonvolatile Random Access Memory for Molecular Computing. Science, 2000, 289, 94-97.	12.6	1,644
67	AFM characterization of the structure of Au-colloid monolayers and their chemical etching. Thin Solid Films, 1999, 340, 183-188.	1.8	34
68	Functionalization of carbon nanotube AFM probes using tip-activated gases. Chemical Physics Letters, 1999, 306, 219-225.	2.6	90
69	Association of Anti-Dinitrophenyl Antibody onto a Patterned Organosiloxane Antigen Monolayer Prepared by Microcontact Printing:â€‰ An AFM Characterization. Langmuir, 1999, 15, 2766-2772.	3.5	25
70	Light-Driven Electron Transfer through a Waterâ˜'Oil Interface by a Shuttle Photosensitizer:â€‰ Photoinduced Electron Transfer from Tributylamine to Fe(CN)63- Using Ethyl Eosin as a Mediator in a Water-in-Oil Microemulsion System. Journal of Physical Chemistry B, 1999, 103, 9262-9268.	2.6	11
71	Photoinduced electron transfer in supramolecular assemblies of transition metal complexes. Coordination Chemistry Reviews, 1998, 171, 261-285.	18.8	34
72	Covalently functionalized nanotubes as nanometre- sized probes in chemistry and biology. Nature, 1998, 394, 52-55.	27.8	1,439

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73	Photoinduced Electron Transfer in Ï€-Donor-Capped Zn(II) Porphyrins andN,Nâ€˜-Dimethyl-4,4â€˜-bipyridinium Supramolecular Assemblies. Journal of Physical Chemistry B, 1998, 102, 1159-1165.	2.6	31
74	Covalently-Functionalized Single-Walled Carbon Nanotube Probe Tips for Chemical Force Microscopy. Journal of the American Chemical Society, 1998, 120, 8557-8558.	13.7	249
75	Photoinduced Electron Transfer in Supramolecular Assemblies Composed of One-Shell and Two-Shell Dialkoxybenzene-Tethered Ru(II)â^'Tris(bipyridine) Derivatives and a Bipyridinium Cyclophane. Journal of the American Chemical Society, 1997, 119, 7778-7790.	13.7	36
76	Photoinduced Electron Transfer in Supramolecular Assemblies Composed of Alkoxyanisyl-Tethered Ruthenium(II)â^'Tris(bipyridazine) Complexes and a Bipyridinium Cyclophane Electron Acceptor. Journal of the American Chemical Society, 1996, 118, 655-665.	13.7	54
77	Enhanced photocatalytic degradation of Ï€-donor organic compounds by N,Nâ€²-dialkyl-4,4â€²-bipyridinium-modified TiO2 particles. Journal of Photochemistry and Photobiology A: Chemistry, 1996, 99, 185-189.	3.9	15
78	Effective Charge Separation in Intermolecular Complexes of an Electron Donor and a Doubly Branched Triad Assembly: A Model System for Environmental Effects Controlling Electron Transfer. Angewandte Chemie International Edition in English, 1995, 34, 1005-1008.	4.4	18
79	Electrical Properties of LaSâ€TaS 2 Misfit Layered Compound Nanotubes. Israel Journal of Chemistry, 0, , .	2.3	2