

# Roie Yerushalmi

## List of Publications by Year in descending order

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41  
papers

2,405  
citations

393982

19  
h-index

264894

42  
g-index

43  
all docs

43  
docs citations

43  
times ranked

3532  
citing authors

#	ARTICLE	IF	CITATIONS
1	Wafer-Scale Assembly of Highly Ordered Semiconductor Nanowire Arrays by Contact Printing. Nano Letters, 2008, 8, 20-25.	4.5	542
2	Toward the Development of Printable Nanowire Electronics and Sensors. Advanced Materials, 2009, 21, 3730-3743.	11.1	363
3	Controlled nanoscale doping of semiconductors via molecular monolayers. Nature Materials, 2008, 7, 62-67.	13.3	311
4	Stimuli responsive materials: new avenues toward smart organic devices. Journal of Materials Chemistry, 2005, 15, 4480.	6.7	185
5	Wafer-Scale, Sub-5 nm Junction Formation by Monolayer Doping and Conventional Spike Annealing. Nano Letters, 2009, 9, 725-730.	4.5	148
6	Large scale, highly ordered assembly of nanowire parallel arrays by differential roll printing. Applied Physics Letters, 2007, 91, .	1.5	117
7	Sustainable photocatalytic production of hydrogen peroxide from water and molecular oxygen. Journal of Materials Chemistry A, 2014, 2, 13822-13826.	5.2	79
8	Enhancement of Molecular Properties in Thin Films by Controlled Orientation of Molecular Building Blocks. Journal of the American Chemical Society, 2004, 126, 2700-2701.	6.6	71
9	Contact Doping of Silicon Wafers and Nanostructures with Phosphine Oxide Monolayers. ACS Nano, 2012, 6, 10311-10318.	7.3	50
10	Transformation of Organic-Inorganic Hybrid Films Obtained by Molecular Layer Deposition to Photocatalytic Layers with Enhanced Activity. ACS Nano, 2012, 6, 7263-7269.	7.3	45
11	Optical Absorption and Computational Studies of [Ni]-Bacteriochlorophyll-a. New Insight into Charge Distribution between Metal and Ligands. Journal of the American Chemical Society, 2000, 122, 3937-3944.	6.6	38
12	Phosphine Oxide Monolayers on SiO <sub>2</sub> Surfaces. Angewandte Chemie - International Edition, 2008, 47, 4440-4442.	7.2	37
13	Dopant Diffusion and Activation in Silicon Nanowires Fabricated by ex Situ Doping: A Correlative Study via Atom-Probe Tomography and Scanning Tunneling Spectroscopy. Nano Letters, 2016, 16, 4490-4500.	4.5	36
14	Oxygen-Deficient Titania with Adjustable Band Positions and Defects; Molecular Layer Deposition of Hybrid Organic-Inorganic Thin Films as Precursors for Enhanced Photocatalysis. Journal of Physical Chemistry C, 2016, 120, 3853-3862.	1.5	36
15	Surface modification of metal oxides by polar molecules in a non-polar, polarizable solvent system. Chemical Communications, 2014, 50, 5397.	2.2	32
16	Direct Experimental Evaluation of Charge Scheme Performance by a Molecular Charge-Meter. Journal of the American Chemical Society, 2004, 126, 5897-5905.	6.6	31
17	Parallel p-n Junctions across Nanowires by One-Step Ex Situ Doping. ACS Nano, 2014, 8, 8357-8362.	7.3	31
18	Generic Nanomaterial Positioning by Carrier and Stationary Phase Design. Nano Letters, 2007, 7, 2764-2768.	4.5	23

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19	Submolecular Potential Profiling Across Organic Monolayers. <i>Nano Letters</i> , 2006, 6, 2848-2851.	4.5	21
20	Mutual Control of Axial and Equatorial Ligands: A Model Studies with [Ni]-Bacteriochlorophyll-a. <i>Journal of the American Chemical Society</i> , 2002, 124, 8406-8415.	6.6	19
21	Atomic and Molecular Layer Deposition of Chiral Thin Films Showing up to 99% Spin Selective Transport. <i>Nano Letters</i> , 2022, 22, 5022-5028.	4.5	19
22	Facile Monolayer Formation on SiO <sub>2</sub> Surfaces via Organoboron Functionalities. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 7415-7418.	7.2	18
23	Criteria and considerations for preparing atom-probe tomography specimens of nanomaterials utilizing an encapsulation methodology. <i>Ultramicroscopy</i> , 2018, 184, 225-233.	0.8	13
24	Modulation of Fragmental Charge Transfer via Hydrogen Bonds. Direct Measurement of Electronic Contributions. <i>Journal of Physical Chemistry A</i> , 2006, 110, 412-421.	1.1	12
25	Semiconductor-Metal Nanoflakes Hybrid Structures by Self-Processing Synthesis. <i>Journal of the American Chemical Society</i> , 2016, 138, 4079-4086.	6.6	11
26	Direct Dopant Patterning by a Remote Monolayer Doping Enabled by a Monolayer Fragmentation Study. <i>Langmuir</i> , 2017, 33, 5371-5377.	1.6	11
27	Diversification of Device Platforms by Molecular Layers: Hybrid Sensing Platforms, Monolayer Doping, and Modeling. <i>Langmuir</i> , 2018, 34, 14103-14123.	1.6	10
28	Boron Monolayer Doping: Role of Oxide Capping Layer, Molecular Fragmentation, and Doping Uniformity at the Nanoscale. <i>Advanced Materials Interfaces</i> , 2020, 7, 1902198.	1.9	10
29	Chirality Nanosensor with Direct Electric Readout by Coupling of Nanoflakes Localized Plasmons with Electronic Transport. <i>Nano Letters</i> , 2021, 21, 6496-6503.	4.5	10
30	Monolayer Contact Doping of Silicon Surfaces and Nanowires Using Organophosphorus Compounds. <i>Journal of Visualized Experiments</i> , 2013, , 50770.	0.2	8
31	Tailor-made oxide architectures attained by molecularly permeable metal-oxide organic hybrid thin films. <i>Chemical Communications</i> , 2014, 50, 9176-9178.	2.2	8
32	An Experimental Look into Subelectron Charge Flow. <i>Journal of the American Chemical Society</i> , 2003, 125, 12706-12707.	6.6	7
33	Uniform Approach to Bacteriochlorophyll-Based Monolayers on Conducting, Semiconducting, and Insulating Substrates. <i>Journal of Physical Chemistry B</i> , 2005, 109, 6933-6935.	1.2	7
34	Self-formed nanogap junctions for electronic detection and characterization of molecules and quantum dots. <i>RSC Advances</i> , 2017, 7, 25861-25866.	1.7	6
35	Broad-band high-gain room temperature photodetectors using semiconductor-metal nanoflakes hybrids with wide plasmonic response. <i>Nanoscale</i> , 2019, 11, 6368-6376.	2.8	6
36	Chemical Site Capacitance: Submolecular Measurements and a Model. <i>Journal of Physical Chemistry C</i> , 2007, 111, 13652-13654.	1.5	4

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37	1-D Metal Nanobead Arrays within Encapsulated Nanowires via a Red-Ox-Induced Dewetting: Mechanism Study by Atom-Probe Tomography. <i>Nano Letters</i> , 2017, 17, 7478-7486.	4.5	4
38	Photoreactivity of Deep VB Titania Attained Via Molecular Layer Deposition; Interplay of Metal Oxide Thin Film Built-in Strain and Molecular Effects. <i>Topics in Catalysis</i> , 2021, 64, 297-312.	1.3	3
39	Molecular Fingerprint Detection Using Portable Water-Compatible Electronic Tunneling Spectroscopy Device. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000605.	1.9	1
40	Layered Si-Ti oxide thin films with tailored electrical and optical properties by catalytic tandem MLD-ALD. <i>RSC Advances</i> , 2021, 11, 35099-35109.	1.7	1
41	Molecular Fingerprint Detection: Molecular Fingerprint Detection Using Portable Water-Compatible Electronic Tunneling Spectroscopy Device ( <i>Adv. Mater. Interfaces</i> 19/2020). <i>Advanced Materials Interfaces</i> , 2020, 7, 2070106.	1.9	0