

Roie Yerushalmi

List of Publications by Year in descending order

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3532
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Chirality Nanosensor with Direct Electric Readout by Coupling of Nanofloret Localized Plasmons with Electronic Transport. <i>Nano Letters</i> , 2021, 21, 6496-6503.	4.5	10
4	Layered Siâ€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
5	Molecular Fingerprint Detection: Molecular Fingerprint Detection Using Portable Waterâ€Compatible Electronic Tunneling Spectroscopy Device (<i>Adv. Mater. Interfaces</i> 19/2020). <i>Advanced Materials Interfaces</i> , 2020, 7, 2070106.	1.9	0
6	Molecular Fingerprint Detection Using Portable Waterâ€Compatible Electronic Tunneling Spectroscopy Device. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000605.	1.9	1
7	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
8	Broad-band high-gain room temperature photodetectors using semiconductorâ€metal nanofloret hybrids with wide plasmonic response. <i>Nanoscale</i> , 2019, 11, 6368-6376.	2.8	6
9	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
10	Diversification of Device Platforms by Molecular Layers: Hybrid Sensing Platforms, Monolayer Doping, and Modeling. <i>Langmuir</i> , 2018, 34, 14103-14123.	1.6	10
11	Direct Dopant Patterning by a Remote Monolayer Doping Enabled by a Monolayer Fragmentation Study. <i>Langmuir</i> , 2017, 33, 5371-5377.	1.6	11
12	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
13	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
14	Dopant Diffusion and Activation in Silicon Nanowires Fabricated by ex Situ Doping: A Correlative Study via Atom-Probe Tomography and Scanning Tunneling Spectroscopy. <i>Nano Letters</i> , 2016, 16, 4490-4500.	4.5	36
15	Semiconductorâ€Metal Nanofloret Hybrid Structures by Self-Processing Synthesis. <i>Journal of the American Chemical Society</i> , 2016, 138, 4079-4086.	6.6	11
16	Oxygen-Deficient Titania with Adjustable Band Positions and Defects; Molecular Layer Deposition of Hybrid Organicâ€Inorganic Thin Films as Precursors for Enhanced Photocatalysis. <i>Journal of Physical Chemistry C</i> , 2016, 120, 3853-3862.	1.5	36
17	Surface modification of metal oxides by polar molecules in a non-polar, polarizable solvent system. <i>Chemical Communications</i> , 2014, 50, 5397.	2.2	32
18	Sustainable photocatalytic production of hydrogen peroxide from water and molecular oxygen. <i>Journal of Materials Chemistry A</i> , 2014, 2, 13822-13826.	5.2	79

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19	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
20	Parallel p-n Junctions across Nanowires by One-Step <i>Ex Situ</i> Doping. <i>ACS Nano</i> , 2014, 8, 8357-8362.	7.3	31
21	Facile Monolayer Formation on SiO ₂ Surfaces via Organoboron Functionalities. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 7415-7418.	7.2	18
22	Monolayer Contact Doping of Silicon Surfaces and Nanowires Using Organophosphorus Compounds. <i>Journal of Visualized Experiments</i> , 2013, , 50770.	0.2	8
23	Contact Doping of Silicon Wafers and Nanostructures with Phosphine Oxide Monolayers. <i>ACS Nano</i> , 2012, 6, 10311-10318.	7.3	50
24	Transformation of Organic-Inorganic Hybrid Films Obtained by Molecular Layer Deposition to Photocatalytic Layers with Enhanced Activity. <i>ACS Nano</i> , 2012, 6, 7263-7269.	7.3	45
25	Toward the Development of Printable Nanowire Electronics and Sensors. <i>Advanced Materials</i> , 2009, 21, 3730-3743.	11.1	363
26	Wafer-Scale, Sub-5 nm Junction Formation by Monolayer Doping and Conventional Spike Annealing. <i>Nano Letters</i> , 2009, 9, 725-730.	4.5	148
27	Phosphine Oxide Monolayers on SiO ₂ Surfaces. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 4440-4442.	7.2	37
28	Controlled nanoscale doping of semiconductors via molecular monolayers. <i>Nature Materials</i> , 2008, 7, 62-67.	13.3	311
29	Wafer-Scale Assembly of Highly Ordered Semiconductor Nanowire Arrays by Contact Printing. <i>Nano Letters</i> , 2008, 8, 20-25.	4.5	542
30	Large scale, highly ordered assembly of nanowire parallel arrays by differential roll printing. <i>Applied Physics Letters</i> , 2007, 91, .	1.5	117
31	Generic Nanomaterial Positioning by Carrier and Stationary Phase Design. <i>Nano Letters</i> , 2007, 7, 2764-2768.	4.5	23
32	Chemical Site Capacitance: Submolecular Measurements and a Model. <i>Journal of Physical Chemistry C</i> , 2007, 111, 13652-13654.	1.5	4
33	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
34	Submolecular Potential Profiling Across Organic Monolayers. <i>Nano Letters</i> , 2006, 6, 2848-2851.	4.5	21
35	Stimuli responsive materials: new avenues toward smart organic devices. <i>Journal of Materials Chemistry</i> , 2005, 15, 4480.	6.7	185
36	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

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37	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
38	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
39	An Experimental Look into Subelectron Charge Flow. Journal of the American Chemical Society, 2003, 125, 12706-12707.	6.6	7
40	Mutual Control of Axial and Equatorial Ligands: A Model Studies with [Ni]-Bacteriochlorophyll-a. Journal of the American Chemical Society, 2002, 124, 8406-8415.	6.6	19
41	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