Roie Yerushalmi

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Wafer-Scale Assembly of Highly Ordered Semiconductor Nanowire Arrays by Contact Printing. Nano Letters, 2008, 8, 20-25.	9.1	542
2	Toward the Development of Printable Nanowire Electronics and Sensors. Advanced Materials, 2009, 21, 3730-3743.	21.0	363
3	Controlled nanoscale doping of semiconductors via molecular monolayers. Nature Materials, 2008, 7, 62-67.	27.5	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.	9.1	148
6	Large scale, highly ordered assembly of nanowire parallel arrays by differential roll printing. Applied Physics Letters, 2007, 91, .	3.3	117
7	Sustainable photocatalytic production of hydrogen peroxide from water and molecular oxygen. Journal of Materials Chemistry A, 2014, 2, 13822-13826.	10.3	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.	13.7	71
9	Contact Doping of Silicon Wafers and Nanostructures with Phosphine Oxide Monolayers. ACS Nano, 2012, 6, 10311-10318.	14.6	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.	14.6	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.	13.7	38
12	Phosphine Oxide Monolayers on SiO ₂ Surfaces. Angewandte Chemie - International Edition, 2008, 47, 4440-4442.	13.8	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.	9.1	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.	3.1	36
15	Surface modification of metal oxides by polar molecules in a non-polar, polarizable solvent system. Chemical Communications, 2014, 50, 5397.	4.1	32
16	Direct Experimental Evaluation of Charge Scheme Performance by a Molecular Charge-Meter. Journal of the American Chemical Society, 2004, 126, 5897-5905.	13.7	31
17	Parallel p–n Junctions across Nanowires by One-Step <i>Ex Situ</i> Doping. ACS Nano, 2014, 8, 8357-8362.	14.6	31
18	Generic Nanomaterial Positioning by Carrier and Stationary Phase Design. Nano Letters, 2007, 7, 2764-2768	9.1	23

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19	Submolecular Potential Profiling Across Organic Monolayers. Nano Letters, 2006, 6, 2848-2851.	9.1	21
20	Mutual Control of Axial and Equatorial Ligands:Â Model Studies with [Ni]-Bacteriochlorophyll-a. Journal of the American Chemical Society, 2002, 124, 8406-8415.	13.7	19
21	Atomic and Molecular Layer Deposition of Chiral Thin Films Showing up to 99% Spin Selective Transport. Nano Letters, 2022, 22, 5022-5028.	9.1	19
22	Facile Monolayer Formation on SiO ₂ Surfaces via Organoboron Functionalities. Angewandte Chemie - International Edition, 2013, 52, 7415-7418.	13.8	18
23	Criteria and considerations for preparing atom-probe tomography specimens of nanomaterials utilizing an encapsulation methodology. Ultramicroscopy, 2018, 184, 225-233.	1.9	13
24	Modulation of Fragmental Charge Transfer via Hydrogen Bonds. Direct Measurement of Electronic Contributionsâ€. Journal of Physical Chemistry A, 2006, 110, 412-421.	2.5	12
25	Semiconductor–Metal Nanofloret Hybrid Structures by Self-Processing Synthesis. Journal of the American Chemical Society, 2016, 138, 4079-4086.	13.7	11
26	Direct Dopant Patterning by a Remote Monolayer Doping Enabled by a Monolayer Fragmentation Study. Langmuir, 2017, 33, 5371-5377.	3.5	11
27	Diversification of Device Platforms by Molecular Layers: Hybrid Sensing Platforms, Monolayer Doping, and Modeling. Langmuir, 2018, 34, 14103-14123.	3.5	10
28	Boron Monolayer Doping: Role of Oxide Capping Layer, Molecular Fragmentation, and Doping Uniformity at the Nanoscale. Advanced Materials Interfaces, 2020, 7, 1902198.	3.7	10
29	Chirality Nanosensor with Direct Electric Readout by Coupling of Nanofloret Localized Plasmons with Electronic Transport. Nano Letters, 2021, 21, 6496-6503.	9.1	10
30	Monolayer Contact Doping of Silicon Surfaces and Nanowires Using Organophosphorus Compounds. Journal of Visualized Experiments, 2013, , 50770.	0.3	8
31	Tailor-made oxide architectures attained by molecularly permeable metal-oxide organic hybrid thin films. Chemical Communications, 2014, 50, 9176-9178.	4.1	8
32	An Experimental Look into Subelectron Charge Flow. Journal of the American Chemical Society, 2003, 125, 12706-12707.	13.7	7
33	Uniform Approach to Bacteriochlorophyll-Based Monolayers on Conducting, Semiconducting, and Insulating Substrates. Journal of Physical Chemistry B, 2005, 109, 6933-6935.	2.6	7
34	Self-formed nanogap junctions for electronic detection and characterization of molecules and quantum dots. RSC Advances, 2017, 7, 25861-25866.	3.6	6
35	Broad-band high-gain room temperature photodetectors using semiconductor–metal nanofloret hybrids with wide plasmonic response. Nanoscale, 2019, 11, 6368-6376.	5.6	6
36	Chemical Site Capacitance:  Submolecular Measurements and a Model. Journal of Physical Chemistry C, 2007, 111, 13652-13654.	3.1	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. Nano Letters, 2017, 17, 7478-7486.	9.1	4
38	Photoreactivity of Deep VB Titania Attained Via Molecular Layer Deposition; Interplay of Metal Oxide Thin Film Built-in Strain and Molecular Effects. Topics in Catalysis, 2021, 64, 297-312.	2.8	3
39	Molecular Fingerprint Detection Using Portable Waterâ€Compatible Electronic Tunneling Spectroscopy Device. Advanced Materials Interfaces, 2020, 7, 2000605.	3.7	1
40	Layered Si–Ti oxide thin films with tailored electrical and optical properties by catalytic tandem MLD-ALD. RSC Advances, 2021, 11, 35099-35109.	3.6	1
41	Molecular Fingerprint Detection: Molecular Fingerprint Detection Using Portable Waterâ€Compatible Electronic Tunneling Spectroscopy Device (Adv. Mater. Interfaces 19/2020). Advanced Materials Interfaces, 2020, 7, 2070106.	3.7	0