

Roey Elnathan

List of Publications by Year in descending order

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54
papers

2,696
citations

136950

32
h-index

189892

50
g-index

59
all docs

59
docs citations

59
times ranked

3626
citing authors

#	ARTICLE	IF	CITATIONS
1	Next Generation Cell Culture Tools Featuring Micro- and Nanotopographies for Biological Screening. <i>Advanced Functional Materials</i> , 2022, 32, 2100881.	14.9	14
2	Cellular nanotechnologies: Orchestrating cellular processes by engineering silicon nanowires architectures. , 2022, , 231-278.		7
3	Next Generation Cell Culture Tools Featuring Micro- and Nanotopographies for Biological Screening (Adv. Funct. Mater. 3/2022). <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	1
4	The Australian National Fabrication Facility: Micro/nanotechnologies from Concept to Translation to End Users. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	0
5	Polymeric Nanoneedle Arrays Mediate Stiffness-Independent Intracellular Delivery (<i>Adv. Funct. Mater.</i>) Tj ETQq1 1,0,784314 rgBT /Ove	14.9	1
6	Changing Fate: Reprogramming Cells via Engineered Nanoscale Delivery Materials. <i>Advanced Materials</i> , 2022, 34, e2108757.	21.0	9
7	A MACEing silicon: Towards single-step etching of defined porous nanostructures for biomedicine. <i>Progress in Materials Science</i> , 2021, 116, 100636.	32.8	65
8	Precision Surface Microtopography Regulates Cell Fate via Changes to Actomyosin Contractility and Nuclear Architecture. <i>Advanced Science</i> , 2021, 8, 2003186.	11.2	41
9	Optically transparent vertical silicon nanowire arrays for live-cell imaging. <i>Journal of Nanobiotechnology</i> , 2021, 19, 51.	9.1	15
10	Vertically Aligned Nanostructured Topographies for Human Neural Stem Cell Differentiation and Neuronal Cell Interrogation. <i>Advanced Therapeutics</i> , 2021, 4, 2100061.	3.2	13
11	Reprint of: A MACEing silicon: Towards single-step etching of defined porous nanostructures for biomedicine. <i>Progress in Materials Science</i> , 2021, 120, 100817.	32.8	5
12	Engineering Micro- Nanomaterials for Biomedical Translation. <i>Advanced NanoBiomed Research</i> , 2021, 1, 2100002.	3.6	20
13	Tutorial: using nanoneedles for intracellular delivery. <i>Nature Protocols</i> , 2021, 16, 4539-4563.	12.0	47
14	Engineered nano-bio interfaces for intracellular delivery and sampling: Applications, agency and artefacts. <i>Materials Today</i> , 2020, 33, 87-104.	14.2	40
15	Vertically configured nanostructure-mediated electroporation: a promising route for intracellular regulations and interrogations. <i>Materials Horizons</i> , 2020, 7, 2810-2831.	12.2	22
16	Efficient Transmission Electron Microscopy Characterization of Cell-Nanostructure Interfacial Interactions. <i>Journal of the American Chemical Society</i> , 2020, 142, 15649-15653.	13.7	18
17	Emerging Roles of 1D Vertical Nanostructures in Orchestrating Immune Cell Functions. <i>Advanced Materials</i> , 2020, 32, e2001668.	21.0	45
18	Silicon-Nanotube-Mediated Intracellular Delivery Enables Ex Vivo Gene Editing. <i>Advanced Materials</i> , 2020, 32, e2000036.	21.0	51

#	ARTICLE	IF	CITATIONS
19	Jellyfish-Based Smart Wound Dressing Devices Containing In Situ Synthesized Antibacterial Nanoparticles. <i>Advanced Functional Materials</i> , 2019, 29, 1902783.	14.9	39
20	Cellular Deformations Induced by Conical Silicon Nanowire Arrays Facilitate Gene Delivery. <i>Small</i> , 2019, 15, e1904819.	10.0	58
21	Advances in Porous Silicon-Based Nanomaterials for Diagnostic and Therapeutic Applications. <i>Advanced Therapeutics</i> , 2019, 2, 1800095.	3.2	92
22	Stable White Light-Emitting Biocomposite Films. <i>Advanced Functional Materials</i> , 2018, 28, 1706967.	14.9	32
23	Tunable 2D binary colloidal alloys for soft nanotemplating. <i>Nanoscale</i> , 2018, 10, 22189-22195.	5.6	44
24	Realization of Molecular-Based Transistors. <i>Advanced Materials</i> , 2018, 30, e1706941.	21.0	22
25	Light-Emitting Biocomposites: Stable White Light-Emitting Biocomposite Films (<i>Adv. Funct. Mater.</i>) Tj ETQq1 1 0,784314,rgBT /Over	14.9	2
26	Compression and deposition of microgel monolayers from fluid interfaces: particle size effects on interface microstructure and nanolithography. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 8671-8680.	2.8	66
27	Antibacterial properties of silver dendrite decorated silicon nanowires. <i>RSC Advances</i> , 2016, 6, 65976-65987.	3.6	36
28	Fully Tunable Silicon Nanowire Arrays Fabricated by Soft Nanoparticle Templating. <i>Nano Letters</i> , 2016, 16, 157-163.	9.1	98
29	Ordered Silicon Pillar Arrays Prepared by Electrochemical Micromachining: Substrates for High-Efficiency Cell Transfection. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 29197-29202.	8.0	45
30	Maximizing Transfection Efficiency of Vertically Aligned Silicon Nanowire Arrays. <i>Advanced Functional Materials</i> , 2015, 25, 7215-7225.	14.9	103
31	Dense Arrays of Uniform Submicron Pores in Silicon and Their Applications. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 1160-1169.	8.0	48
32	Versatile Particle-Based Route to Engineer Vertically Aligned Silicon Nanowire Arrays and Nanoscale Pores. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 23717-23724.	8.0	49
33	Porous Silicon Nanodiscs for Targeted Drug Delivery. <i>Advanced Functional Materials</i> , 2015, 25, 1137-1145.	14.9	82
34	Surface-assisted laser desorption/ionization mass spectrometry using ordered silicon nanopillar arrays. <i>Analyst</i> , 2014, 139, 5999-6009.	3.5	54
35	Supersensitive fingerprinting of explosives by chemically modified nanosensors arrays. <i>Nature Communications</i> , 2014, 5, 4195.	12.8	169
36	Engineering vertically aligned semiconductor nanowire arrays for applications in the life sciences. <i>Nano Today</i> , 2014, 9, 172-196.	11.9	125

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37	Controlled Synthesis of Ferromagnetic Semiconducting Silicon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2012, 116, 8000-8007.	3.1	10
38	Non-covalent Monolayer-Piercing Anchoring of Lipophilic Nucleic Acids: Preparation, Characterization, and Sensing Applications. <i>Journal of the American Chemical Society</i> , 2012, 134, 280-292.	13.7	47
39	Si Nanowires Forest-Based On-Chip Biomolecular Filtering, Separation and Preconcentration Devices: Nanowires Do it All. <i>Nano Letters</i> , 2012, 12, 4748-4756.	9.1	102
40	Highly Ordered Large-Scale Neuronal Networks of Individual Cells "Toward Single Cell to 3D Nanowire Intracellular Interfaces. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 3542-3549.	8.0	51
41	Biorecognition Layer Engineering: Overcoming Screening Limitations of Nanowire-Based FET Devices. <i>Nano Letters</i> , 2012, 12, 5245-5254.	9.1	197
42	Confinement-Guided Shaping of Semiconductor Nanowires and Nanoribbons: "Writing with Nanowires". <i>Nano Letters</i> , 2012, 12, 7-12.	9.1	77
43	Supersensitive Detection of Explosives by Silicon Nanowire Arrays. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 6830-6835.	13.8	254
44	Cover Picture: Supersensitive Detection of Explosives by Silicon Nanowire Arrays (<i>Angew. Chem. Int.</i>)	13.8	1
45	Knocking Down Highly-Ordered Large-Scale Nanowire Arrays. <i>Nano Letters</i> , 2010, 10, 1202-1208.	9.1	87
46	Synthesis of Hybrid Multicomponent Disklike Nanoparticles. <i>Nano Letters</i> , 2008, 8, 3964-3972.	9.1	28
47	Monitoring the Activity of Tyrosinase on a Tyramine/Dopamine-Functionalized Surface by Force Microscopy. <i>Nano Letters</i> , 2007, 7, 2030-2036.	9.1	9
48	The Aggregation of Au Nanoparticles by an Autonomous DNA Machine Detects Viruses. <i>Small</i> , 2007, 3, 375-379.	10.0	50
49	Following Aptamer-Thrombin Binding by Force Measurements. <i>Analytical Chemistry</i> , 2006, 78, 3638-3642.	6.5	90
50	Magnetomechanical Detection of the Specific Activities of Endonucleases by Cantilevers. <i>Nano Letters</i> , 2005, 5, 741-744.	9.1	19
51	Endonuclease-Based Logic Gates and Sensors Using Magnetic Force-Amplified Readout of DNA Scission on Cantilevers. <i>Journal of the American Chemical Society</i> , 2005, 127, 12666-12672.	13.7	54
52	Polymeric Nanoneedle Arrays Mediate Stiffness-Independent Intracellular Delivery. <i>Advanced Functional Materials</i> , 0, , 2104828.	14.9	15
53	Hierarchical hollow metal nanostructure arrays for selective CO2 conversion. <i>Materials Advances</i> , 0, , .	5.4	1
54	The start-ups taking nanoneedles into the clinic. <i>Nature Nanotechnology</i> , 0, , .	31.5	6