

# Tamar Segal-Peretz

## List of Publications by Year in descending order

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Version: 2024-02-01

41  
papers

994  
citations

430442

18  
h-index

433756

31  
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docs citations

41  
times ranked

1509  
citing authors

#	ARTICLE	IF	CITATIONS
1	Development and evaluation of three-dimensional metrology of nanopatterns using electron microscopy. <i>Journal of Micro-nanopatterning, Materials, and Metrology</i> , 2022, 21, .	0.4	1
2	Sequential Infiltration Synthesis for High-Precision Fabrication of Applied Ceramic Fibers with Designed Nanostructures—Nanowires, Nanobelts, and Core-Shell Fibers. <i>ACS Applied Nano Materials</i> , 2022, 5, 7228-7236.	2.4	4
3	Atomic Layer Deposition for Gradient Surface Modification and Controlled Hydrophilization of Ultrafiltration Polymer Membranes. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 15591-15600.	4.0	7
4	Fabrication of Nanoscale Oxide Textured Surfaces on Polymers. <i>Polymers</i> , 2021, 13, 2209.	2.0	2
5	Mesoscale Confinement Effects and Emergent Quantum Interference in Titania Antidot Thin Films. <i>ACS Nano</i> , 2021, 15, 12935-12944.	7.3	1
6	Polymer dewetting in solvent-non-solvent environment- new insights on dynamics and lithography-free patterning. <i>Journal of Colloid and Interface Science</i> , 2021, 596, 267-277.	5.0	6
7	Hybrid Organic-Inorganic Organic Isoporous Membranes with Tunable Pore Sizes and Functionalities for Molecular Separation. <i>Advanced Materials</i> , 2021, 33, e2105251.	11.1	30
8	Alumina Thin-Film Deposition on Rough Topographies Comprising Vertically Aligned Carbon Nanotubes: Implications for Membranes, Sensors, and Electrodes. <i>ACS Applied Nano Materials</i> , 2021, 4, 322-330.	2.4	2
9	Nano Spray-Dried Block Copolymer Nanoparticles and Their Transformation into Hybrid and Inorganic Nanoparticles. <i>Advanced Functional Materials</i> , 2020, 30, 1808932.	7.8	27
10	Understanding and Controlling Polymer-Organometallic Precursor Interactions in Sequential Infiltration Synthesis. <i>Chemistry of Materials</i> , 2020, 32, 4499-4508.	3.2	30
11	Three-dimensional superlattice engineering with block copolymer epitaxy. <i>Science Advances</i> , 2020, 6, eaz0002.	4.7	11
12	Toward Fast Screening of Organic Solar Cell Blends. <i>Advanced Science</i> , 2020, 7, 2000960.	5.6	15
13	Cooperatively Catalyzed Henry Reaction through Directed Metal-Chitosan Interactions. <i>ChemNanoMat</i> , 2019, 5, 1498-1505.	1.5	5
14	Metal Oxide Heterostructure Array via Spatially Controlled Growth within Block Copolymer Templates. <i>Small</i> , 2019, 15, e1904657.	5.2	22
15	Tin oxide nanostructure fabrication via sequential infiltration synthesis in block copolymer thin films. <i>Journal of Colloid and Interface Science</i> , 2019, 557, 537-545.	5.0	34
16	Metal Oxide Heterostructure Arrays: Metal Oxide Heterostructure Array via Spatially Controlled Growth within Block Copolymer Templates ( <i>Small</i> 51/2019). <i>Small</i> , 2019, 15, 1970278.	5.2	0
17	Role of interparticle interactions on microstructural and rheological properties of cellulose nanocrystal stabilized emulsions. <i>Journal of Colloid and Interface Science</i> , 2018, 532, 808-818.	5.0	76
18	Engineering the Kinetics of Directed Self-Assembly of Block Copolymers toward Fast and Defect-Free Assembly. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 23414-23423.	4.0	22

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19	Studying the effects of chemistry and geometry on DSA hole-shrink process in three-dimensions. Journal of Micro/ Nanolithography, MEMS, and MOEMS, 2018, 17, 1.	1.0	3
20	Studying the effects of chemistry and geometry on DSA hole-shrink process in three dimensions. , 2018, , .		1
21	Interconnected ionic domains enhance conductivity in microphase separated block copolymer electrolytes. Journal of Materials Chemistry A, 2017, 5, 5619-5629.	5.2	50
22	Quantitative Three-Dimensional Characterization of Block Copolymer Directed Self-Assembly on Combined Chemical and Topographical Prepatterned Templates. ACS Nano, 2017, 11, 1307-1319.	7.3	43
23	Derivation of Multiple Covarying Material and Process Parameters Using Physics-Based Modeling of X-ray Data. Macromolecules, 2017, 50, 7783-7793.	2.2	26
24	Honeycomb Networks of Metal Oxides from Self-Assembling PS-PMMA Block Copolymers. Microscopy and Microanalysis, 2017, 23, 1654-1655.	0.2	0
25	Fabrication of Nanoporous Alumina Ultrafiltration Membrane with Tunable Pore Size Using Block Copolymer Templates. Advanced Functional Materials, 2017, 27, 1701756.	7.8	87
26	Realizing the Potential of Micro-Phase Separated Block Copolymer Electrolytes: Ion Domain Connectivity Plays a Prominent Role in Ion Conduction. ECS Transactions, 2016, 75, 1013-1020.	0.3	0
27	Three Dimensional Assembly in Directed Self-assembly of Block Copolymers. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2016, 29, 653-657.	0.1	12
28	Post-directed-self-assembly membrane fabrication for <i>in situ</i> analysis of block copolymer structures. Nanotechnology, 2016, 27, 435303.	1.3	18
29	New Insights into Sequential Infiltration Synthesis. ECS Transactions, 2015, 69, 147-157.	0.3	35
30	Plasmonic nanoparticle incorporation into inverted hybrid organic-inorganic solar cells. Organic Electronics, 2015, 23, 144-150.	1.4	12
31	Characterizing the Three-Dimensional Structure of Block Copolymers <i>via</i> Sequential Infiltration Synthesis and Scanning Transmission Electron Tomography. ACS Nano, 2015, 9, 5333-5347.	7.3	98
32	Molecular pathways for defect annihilation in directed self-assembly. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 14144-14149.	3.3	98
33	Metrology of DSA process using TEM tomography. Proceedings of SPIE, 2015, , .	0.8	6
34	Understanding and Promoting Molecular Interactions and Charge Transfer in Dye-Mediated Hybrid Photovoltaic Materials. Journal of Physical Chemistry C, 2014, 118, 25374-25391.	1.5	5
35	Controlling morphology and charge transfer in ZnO/polythiophene photovoltaic films. Journal of Materials Chemistry C, 2014, 2, 4167-4176.	2.7	10
36	Atomic layer deposition of zinc oxide onto and into P3HT for hybrid photovoltaics. Journal of Materials Chemistry C, 2014, 2, 8903-8910.	2.7	41

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37	Control over in-channel mesostructure orientation through AAM surface modification. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 13637.	1.3	5
38	On the Origin of Charge Generation in Hybrid TiO <sub>2</sub> /Conjugated Polymer Photovoltaic Devices. <i>Journal of Physical Chemistry C</i> , 2012, 116, 2024-2032.	1.5	18
39	Mesostructured Silica Containing Conjugated Polymers Formed within the Channels of Anodic Alumina Membranes from Tetrahydrofuran-Based Solution. <i>Langmuir</i> , 2012, 28, 1506-1514.	1.6	9
40	Facile infiltration of semiconducting polymer into mesoporous electrodes for hybrid solar cells. <i>Energy and Environmental Science</i> , 2011, 4, 3051.	15.6	68
41	Understanding and Controlling Organic-Inorganic Interfaces in Mesostructured Hybrid Photovoltaic Materials. <i>Journal of the American Chemical Society</i> , 2011, 133, 10119-10133.	6.6	54