Tamar Segal-Peretz

List of Publications by Year
in descending order

41 papers	994 citations	430442 18 h-index	433756 31 g-index
41 all docs	41 docs citations	41 times ranked	1509 citing authors

#	Article	IF	Citations
1	Characterizing the Three-Dimensional Structure of Block Copolymers via Sequential Infiltration Synthesis and Scanning Transmission Electron Tomography. ACS Nano, 2015, 9, 5333-5347.	7.3	98
2	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
3	Fabrication of Nanoporous Alumina Ultrafiltration Membrane with Tunable Pore Size Using Block Copolymer Templates. Advanced Functional Materials, 2017, 27, 1701756.	7.8	87
4	Role of interparticle interactions on microstructural and rheological properties of cellulose nanocrystal stabilized emulsions. Journal of Colloid and Interface Science, 2018, 532, 808-818.	5.0	76
5	Facile infiltration of semiconducting polymer into mesoporous electrodes for hybrid solar cells. Energy and Environmental Science, 2011, 4, 3051.	15.6	68
6	Understanding and Controlling Organicâ€“Inorganic Interfaces in Mesostructured Hybrid Photovoltaic Materials. Journal of the American Chemical Society, 2011, 133, 10119-10133.	6.6	54
7	Interconnected ionic domains enhance conductivity in microphase separated block copolymer electrolytes. Journal of Materials Chemistry A, 2017, 5, 5619-5629.	5.2	50
8	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
9	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
10	New Insights into Sequential Infiltration Synthesis. ECS Transactions, 2015, 69, 147-157.	0.3	35
11	Tin oxide nanostructure fabrication via sequential infiltration synthesis in block copolymer thin films. Journal of Colloid and Interface Science, 2019, 557, 537-545.	5.0	34
12	Understanding and Controlling Polymerâ€“Organometallic Precursor Interactions in Sequential Infiltration Synthesis. Chemistry of Materials, 2020, 32, 4499-4508.	3.2	30
13	Hybrid Organicâ€“Inorganicâ€“Organic Isoporous Membranes with Tunable Pore Sizes and Functionalities for Molecular Separation. Advanced Materials, 2021, 33, e2105251.	11.1	30
14	Nano Sprayâ€Dried Block Copolymer Nanoparticles and Their Transformation into Hybrid and Inorganic Nanoparticles. Advanced Functional Materials, 2020, 30, 1808932.	7.8	27
15	Derivation of Multiple Covarying Material and Process Parameters Using Physics-Based Modeling of X-ray Data. Macromolecules, 2017, 50, 7783-7793.	2.2	26
16	Engineering the Kinetics of Directed Self-Assembly of Block Copolymers toward Fast and Defect-Free Assembly. ACS Applied Materials & Interfaces, 2018, 10, 23414-23423.	4.0	22
17	Metal Oxide Heterostructure Array via Spatially Controlledâ€“Growth within Block Copolymer Templates. Small, 2019, 15, e1904657.	5.2	22
18	On the Origin of Charge Generation in Hybrid TiOx/Conjugated Polymer Photovoltaic Devices. Journal of Physical Chemistry C, 2012, 116, 2024-2032.	1.5	18

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19	Post-directed-self-assembly membrane fabrication forin situanalysis of block copolymer structures. Nanotechnology, 2016, 27, 435303.	1.3	18
20	Toward Fast Screening of Organic Solar Cell Blends. Advanced Science, 2020, 7, 2000960.	5.6	15
21	Plasmonic nanoparticle incorporation into inverted hybrid organicâ€“inorganic solar cells. Organic Electronics, 2015, 23, 144-150.	1.4	12
22	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
23	Three-dimensional superlattice engineering with block copolymer epitaxy. Science Advances, 2020, 6, eaaz0002.	4.7	11
24	Controlling morphology and charge transfer in ZnO/polythiophene photovoltaic films. Journal of Materials Chemistry C, 2014, 2, 4167-4176.	2.7	10
25	Mesostructured Silica Containing Conjugated Polymers Formed within the Channels of Anodic Alumina Membranes from Tetrahydrofuran-Based Solution. Langmuir, 2012, 28, 1506-1514.	1.6	9
26	Atomic Layer Deposition for Gradient Surface Modification and Controlled Hydrophilization of Ultrafiltration Polymer Membranes. ACS Applied Materials & Interfaces, 2021, 13, 15591-15600.	4.0	7
27	Metrology of DSA process using TEM tomography. Proceedings of SPIE, 2015, , .	0.8	6
28	Polymer dewetting in solvent-non-solvent environment- new insights on dynamics and lithography-free patterning. Journal of Colloid and Interface Science, 2021, 596, 267-277.	5.0	6
29	Control over in-channel mesostructure orientation through AAM surface modification. Physical Chemistry Chemical Physics, 2013, 15, 13637.	1.3	5
30	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
31	Cooperatively Catalyzed Henry Reaction through Directed Metalâ€Chitosan Interactions. ChemNanoMat, 2019, 5, 1498-1505.	1.5	5
32	Sequential Infiltration Synthesis for High-Precision Fabrication of Applied Ceramic Fibers with Designed Nanostructuresâ”€Nanowires, Nanobelts, and Coreâ€“Shell Fibers. ACS Applied Nano Materials, 2022, 5, 7228-7236.	2.4	4
33	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
34	Fabrication of Nanoscale Oxide Textured Surfaces on Polymers. Polymers, 2021, 13, 2209.	2.0	2
35	Alumina Thin-Film Deposition on Rough Topographies Comprising Vertically Aligned Carbon Nanotubes: Implications for Membranes, Sensors, and Electrodes. ACS Applied Nano Materials, 2021, 4, 322-330.	2.4	2
36	Mesoscale Confinement Effects and Emergent Quantum Interference in Titania Antidot Thin Films. ACS Nano, 2021, 15, 12935-12944.	7.3	1

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37	Studying the effects of chemistry and geometry on DSA hole-shrink process in three dimensions. , 2018, , .		1
38	Development and evaluation of three-dimensional metrology of nanopatterns using electron microscopy. Journal of Micro-nanopatterning, Materials, and Metrology, 2022, 21, .	0.4	1
39	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
40	Honeycomb Networks of Metal Oxides from Self-Assembling PS-PMMA Block Copolymers. Microscopy and Microanalysis, 2017, 23, 1654-1655.	0.2	0
41	Metal Oxide Heterostructure Arrays: Metal Oxide Heterostructure Array via Spatially Controlledâ€“Growth within Block Copolymer Templates (Small 51/2019). Small, 2019, 15, 1970278.	5.2	0