

# Zahava Barkay

## List of Publications by Year in descending order

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Version: 2024-02-01

41  
papers

1,789  
citations

279487

23  
h-index

301761

39  
g-index

43  
all docs

43  
docs citations

43  
times ranked

2502  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrathin Gold Island Films on Silanized Glass. Morphology and Optical Properties. <i>Chemistry of Materials</i> , 2004, 16, 3476-3483.	3.2	193
2	Transparent Metal Nanowire Thin Films Prepared in Mesostructured Templates. <i>Nano Letters</i> , 2009, 9, 4246-4249.	4.5	145
3	Silica-Stabilized Gold Island Films for Transmission Localized Surface Plasmon Sensing. <i>Journal of the American Chemical Society</i> , 2007, 129, 84-92.	6.6	136
4	On the Mechanism of Floating and Sliding of Liquid Marbles. <i>ChemPhysChem</i> , 2009, 10, 654-656.	1.0	102
5	Contact Angle Hysteresis on Polymer Substrates Established with Various Experimental Techniques, Its Interpretation, and Quantitative Characterization. <i>Langmuir</i> , 2008, 24, 4020-4025.	1.6	101
6	Enhanced osseointegration of grit-blasted, NaOH-treated and electrochemically hydroxyapatite-coated Ti-6Al-4V implants in rabbits. <i>Acta Biomaterialia</i> , 2009, 5, 2258-2269.	4.1	100
7	Shape, Vibrations, and Effective Surface Tension of Water Marbles. <i>Langmuir</i> , 2009, 25, 1893-1896.	1.6	100
8	Structural Transition in Peptide Nanotubes. <i>Biomacromolecules</i> , 2011, 12, 1349-1354.	2.6	90
9	Confinement-Guided Shaping of Semiconductor Nanowires and Nanoribbons: "Writing with Nanowires". <i>Nano Letters</i> , 2012, 12, 7-12.	4.5	77
10	Environmental Scanning Electron Microscopy Study of the Fine Structure of the Triple Line and Cassie-Wenzel Wetting Transition for Sessile Drops Deposited on Rough Polymer Substrates. <i>Langmuir</i> , 2007, 23, 4378-4382.	1.6	70
11	Accumulation of heavy metals in epidermal glands of the waterlily ( <i>Nymphaeaceae</i> ). <i>Planta</i> , 2001, 212, 313-322.	1.6	66
12	Revisiting the surface tension of liquid marbles: Measurement of the effective surface tension of liquid marbles with the pendant marble method. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013, 425, 15-23.	2.3	62
13	Sensitivity of Transmission Surface Plasmon Resonance (T-SPR) Spectroscopy: Self-Assembled Multilayers on Evaporated Gold Island Films. <i>Chemistry - A European Journal</i> , 2005, 11, 5555-5562.	1.7	59
14	Self-assembly in evaporated polymer solutions: Influence of the solution concentration. <i>Journal of Colloid and Interface Science</i> , 2006, 297, 534-540.	5.0	56
15	Octocoral Tissue Provides Protection from Declining Oceanic pH. <i>PLoS ONE</i> , 2014, 9, e91553.	1.1	51
16	The relation between aging temperature, microstructure evolution and hardening of Custom 465 <sup>®</sup> stainless steel. <i>Materials Characterization</i> , 2017, 127, 129-136.	1.9	48
17	Mesoscopic Patterning in Evaporated Polymer Solutions: Poly(ethylene glycol) and Room-temperature-vulcanized Polyorganosilanes/siloxanes Promote Formation of Honeycomb Structures. <i>Macromolecular Chemistry and Physics</i> , 2008, 209, 567-576.	1.1	40
18	Hydrogen effects on electrochemically charged additive manufactured by electron beam melting (EBM) and wrought Ti-6Al-4V alloys. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 25523-25540.	3.8	36

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19	Gravity orientation in social wasp comb cells (Vespinae) and the possible role of embedded minerals. <i>Die Naturwissenschaften</i> , 2008, 95, 333-342.	0.6	28
20	Atomic force and scanning electron microscopy of atmospheric particles. <i>Microscopy Research and Technique</i> , 2005, 68, 107-114.	1.2	26
21	Free-standing, Thermostable, Micrometer-scale Honeycomb Polymer Films and their Properties. <i>Macromolecular Materials and Engineering</i> , 2008, 293, 872-877.	1.7	26
22	Physical vapor deposition of peptide nanostructures. <i>Polymer Journal</i> , 2013, 45, 494-503.	1.3	24
23	Plasma treatment switches the regime of wetting and floating of pepper seeds. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 157, 417-423.	2.5	24
24	Observations of Ball-Lightning-Like Plasmoids Ejected from Silicon by Localized Microwaves. <i>Materials</i> , 2013, 6, 4011-4030.	1.3	19
25	Drop-wise and film-wise water condensation processes occurring on metallic micro-scaled surfaces. <i>Applied Surface Science</i> , 2018, 444, 604-609.	3.1	19
26	Patterning in rapidly evaporated polymer solutions: Formation of annular structures under evaporation of the poor solvent. <i>Journal of Colloid and Interface Science</i> , 2006, 300, 293-297.	5.0	16
27	Sub-micromorphology of the epicuticle of hornets: AFM studies. <i>Journal of Electron Microscopy</i> , 2002, 51, 79-86.	0.9	14
28	Enhancement of Wetting and Mechanical Properties of UHMWPE-based Composites through Alumina Atomic Layer Deposition. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800295.	1.9	14
29	Jellyfish-based Plastic. <i>Advanced Sustainable Systems</i> , 2019, 3, 1900016.	2.7	11
30	<i>In Situ</i> Imaging of Nano-Droplet Condensation and Coalescence on Thin Water Films. <i>Microscopy and Microanalysis</i> , 2014, 20, 317-322.	0.2	10
31	Robust method of manufacturing rubber waste-based water repellent surfaces. <i>Polymers for Advanced Technologies</i> , 2009, 20, 650-653.	1.6	6
32	A thermoregulatory center in hornets: IR photography. <i>Microscopy Research and Technique</i> , 2005, 68, 321-328.	1.2	4
33	Unwrapping Core-shell Nanowires into Nanoribbon-based Superstructures. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 11298-11302.	7.2	4
34	The thermogenic center in social wasps. <i>Journal of Electron Microscopy</i> , 2006, 55, 41-49.	0.9	3
35	Secondary Electron Emission Contrast of Quantum Wells in GaAs p-i-n Junctions. <i>Microscopy and Microanalysis</i> , 2009, 15, 125-129.	0.2	3
36	Treatment of Methylene Blue water solution by submerged pulse arc in multi-electrode reactor. <i>Journal of Water Process Engineering</i> , 2016, 13, 53-60.	2.6	3

#	ARTICLE	IF	CITATIONS
37	Antennal and Cephalic organelles in the social wasp <i>Paravespula germanica</i> (Hymenoptera, Vespinae): Form and possible function. <i>Microscopy Research and Technique</i> , 2006, 69, 46-52.	1.2	1
38	Controlled Formation of Radial Core-Shell Si/Metal Silicide Crystalline Heterostructures. <i>Nano Letters</i> , 2018, 18, 70-80.	4.5	1
39	AFM study of microstructures on the cornea of the compound eye and ocelli of the hornet <i>Vespa orientalis</i> (Insecta, Hymenoptera). <i>Physiological Chemistry and Physics and Medical NMR</i> , 2002, 34, 61-9.	0.2	1
40	ESEM Study of Magnetic Bubbles - Surface Morphological and Fluidic Aspects. <i>Microscopy and Microanalysis</i> , 2015, 21, 193-194.	0.2	0
41	Paradoxical Long-Timespan Opening of the Hole in Self-Supported Water Films of Nanometer Thickness. <i>Langmuir</i> , 2017, 33, 4688-4693.	1.6	0