

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 | Hydrogen effects on electrochemically charged additive manufactured by electron beam melting (EBM) and wrought Ti-6Al-4V alloys. International Journal of Hydrogen Energy, 2020, 45, 25523-25540. | 3.8 | 36 |
| 2 | Jellyfish-Based Plastic. Advanced Sustainable Systems, 2019, 3, 1900016. | 2.7 | 11 |
| 3 | Drop-wise and film-wise water condensation processes occurring on metallic micro-scaled surfaces. Applied Surface Science, 2018, 444, 604-609. | 3.1 | 19 |
| 4 | Controlled Formation of Radial Core-Shell Si/Metal Silicide Crystalline Heterostructures. Nano Letters, 2018, 18, 70-80. | 4.5 | 1 |
| 5 | Enhancement of Wetting and Mechanical Properties of UHMWPE-Based Composites through Alumina Atomic Layer Deposition. Advanced Materials Interfaces, 2018, 5, 1800295. | 1.9 | 14 |
| 6 | The relation between aging temperature, microstructure evolution and hardening of Custom 465 stainless steel. Materials Characterization, 2017, 127, 129-136. | 1.9 | 48 |
| 7 | Paradoxical Long-Timespan Opening of the Hole in Self-Supported Water Films of Nanometer Thickness. Langmuir, 2017, 33, 4688-4693. | 1.6 | 0 |
| 8 | Plasma treatment switches the regime of wetting and floating of pepper seeds. Colloids and Surfaces B: Biointerfaces, 2017, 157, 417-423. | 2.5 | 24 |
| 9 | Treatment of Methylene Blue water solution by submerged pulse arc in multi-electrode reactor. Journal of Water Process Engineering, 2016, 13, 53-60. | 2.6 | 3 |
| 10 | ESEM Study of Magnetic Bubbles - Surface Morphological and Fluidic Aspects. Microscopy and Microanalysis, 2015, 21, 193-194. | 0.2 | 0 |
| 11 | Octocoral Tissue Provides Protection from Declining Oceanic pH. PLoS ONE, 2014, 9, e91553. | 1.1 | 51 |
| 12 | <i>In Situ</i> Imaging of Nano-Droplet Condensation and Coalescence on Thin Water Films. Microscopy and Microanalysis, 2014, 20, 317-322. | 0.2 | 10 |
| 13 | Revisiting the surface tension of liquid marbles: Measurement of the effective surface tension of liquid marbles with the pendant marble method. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2013, 425, 15-23. | 2.3 | 62 |
| 14 | Physical vapor deposition of peptide nanostructures. Polymer Journal, 2013, 45, 494-503. | 1.3 | 24 |
| 15 | Observations of Ball-Lightning-Like Plasmoids Ejected from Silicon by Localized Microwaves. Materials, 2013, 6, 4011-4030. | 1.3 | 19 |
| 16 | Unwrapping Core-Shell Nanowires into Nanoribbon-Based Superstructures. Angewandte Chemie - International Edition, 2013, 52, 11298-11302. | 7.2 | 4 |
| 17 | Confinement-Guided Shaping of Semiconductor Nanowires and Nanoribbons: Writing with Nanowires. Nano Letters, 2012, 12, 7-12. | 4.5 | 77 |
| 18 | Structural Transition in Peptide Nanotubes. Biomacromolecules, 2011, 12, 1349-1354. | 2.6 | 90 |

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|----|---|-----|-----------|
| 19 | On the Mechanism of Floating and Sliding of Liquid Marbles. <i>ChemPhysChem</i> , 2009, 10, 654-656. | 1.0 | 102 |
| 20 | Robust method of manufacturing rubber waste-based water repellent surfaces. <i>Polymers for Advanced Technologies</i> , 2009, 20, 650-653. | 1.6 | 6 |
| 21 | 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 |
| 22 | Shape, Vibrations, and Effective Surface Tension of Water Marbles. <i>Langmuir</i> , 2009, 25, 1893-1896. | 1.6 | 100 |
| 23 | Transparent Metal Nanowire Thin Films Prepared in Mesostuctured Templates. <i>Nano Letters</i> , 2009, 9, 4246-4249. | 4.5 | 145 |
| 24 | 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 |
| 25 | Gravity orientation in social wasp comb cells (<i>Vespinae</i>) and the possible role of embedded minerals. <i>Die Naturwissenschaften</i> , 2008, 95, 333-342. | 0.6 | 28 |
| 26 | 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 |
| 27 | Free-standing, Thermostable, Micrometer-scale Honeycomb Polymer Films and their Properties. <i>Macromolecular Materials and Engineering</i> , 2008, 293, 872-877. | 1.7 | 26 |
| 28 | 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 |
| 29 | 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 |
| 30 | 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 |
| 31 | 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 |
| 32 | 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 |
| 33 | Antennal and Cephalic organelles in the social wasp <i>Paravespula germanica</i> (Hymenoptera, <i>Vespinae</i>): Form and possible function. <i>Microscopy Research and Technique</i> , 2006, 69, 46-52. | 1.2 | 1 |
| 34 | The thermogenic center in social wasps. <i>Journal of Electron Microscopy</i> , 2006, 55, 41-49. | 0.9 | 3 |
| 35 | Atomic force and scanning electron microscopy of atmospheric particles. <i>Microscopy Research and Technique</i> , 2005, 68, 107-114. | 1.2 | 26 |
| 36 | A thermoregulatory center in hornets: IR photography. <i>Microscopy Research and Technique</i> , 2005, 68, 321-328. | 1.2 | 4 |

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|----|--|-----|-----------|
| 37 | 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 |
| 38 | Ultrathin Gold Island Films on Silanized Glass. Morphology and Optical Properties. <i>Chemistry of Materials</i> , 2004, 16, 3476-3483. | 3.2 | 193 |
| 39 | Sub-micromorphology of the epicuticle of hornets: AFM studies. <i>Journal of Electron Microscopy</i> , 2002, 51, 79-86. | 0.9 | 14 |
| 40 | 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 |
| 41 | Accumulation of heavy metals in epidermal glands of the waterlily (Nymphaeaceae). <i>Planta</i> , 2001, 212, 313-322. | 1.6 | 66 |