

Ehud Banin

List of Publications by Year in descending order

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89
papers

6,539
citations

94269

37
h-index

64668

79
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89
all docs

89
docs citations

89
times ranked

9461
citing authors

#	ARTICLE	IF	CITATIONS
1	Non-radical synthesis of chitosan-quercetin polysaccharide: Properties, bioactivity and applications. <i>Carbohydrate Polymers</i> , 2022, 284, 119206.	5.1	6
2	PrrT/A, a <i>Pseudomonas aeruginosa</i> Bacterial Encoded Toxin-Antitoxin System Involved in Prophage Regulation and Biofilm Formation. <i>Microbiology Spectrum</i> , 2022, 10, e0118222.	1.2	5
3	An Efficient, Counter-Selection-Based Method for Prophage Curing in <i>Pseudomonas aeruginosa</i> Strains. <i>Viruses</i> , 2021, 13, 336.	1.5	2
4	Biofilm-Protected Catheters Nanolaminated by Multiple Atomic-Layer-Deposited Oxide Films. <i>ACS Applied Nano Materials</i> , 2021, 4, 6398-6406.	2.4	1
5	In Situ Grafting of Silica Nanoparticle Precursors with Covalently Attached Bioactive Agents to Form PVA-Based Materials for Sustainable Active Packaging. <i>Polymers</i> , 2021, 13, 2889.	2.0	2
6	Fluorine-Free Superhydrophobic Coating with Antibiofilm Properties Based on Pickering Emulsion Templating. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 37693-37703.	4.0	30
7	Identification of protein-protein interactions using a magnetic modulation biosensing system. <i>Sensors and Actuators B: Chemical</i> , 2020, 303, 127228.	4.0	10
8	Antimicrobial Activities of Zn-Doped CuO Microparticles Decorated on Polydopamine against Sensitive and Antibiotic-Resistant Bacteria. <i>ACS Applied Polymer Materials</i> , 2020, 2, 5878-5888.	2.0	38
9	Carbon Dots for Heavy-Metal Sensing, pH-Sensitive Cargo Delivery, and Antibacterial Applications. <i>ACS Applied Nano Materials</i> , 2020, 3, 11777-11790.	2.4	113
10	Characterization of <i>PfiT</i> / <i>PfiA</i> toxin-antitoxin system of <i>Pseudomonas aeruginosa</i> that affects cell elongation and prophage induction. <i>Environmental Microbiology</i> , 2020, 22, 5048-5057.	1.8	9
11	The Complexity of the Holobiont in the Red Sea Coral <i>Euphyllia paradivisa</i> under Heat Stress. <i>Microorganisms</i> , 2020, 8, 372.	1.6	6
12	Small molecule-decorated gold nanoparticles for preparing antibiofilm fabrics. <i>Nanoscale Advances</i> , 2020, 2, 2293-2302.	2.2	28
13	Prevention and Treatment of <i>Pseudomonas Aeruginosa</i> -Based Biofilm with Ethanol. <i>Israel Medical Association Journal</i> , 2020, 22, 299-302.	0.1	1
14	The Algal Symbiont Modifies the Transcriptome of the Scleractinian Coral <i>Euphyllia paradivisa</i> During Heat Stress. <i>Microorganisms</i> , 2019, 7, 256.	1.6	10
15	Engineering Irrigation Drippers with Rechargeable <i>N</i> -Halamine Nanoparticles for Antifouling Applications. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 23584-23590.	4.0	8
16	Poly(styryl bisphosphonate) nanoparticles with a narrow size distribution: Synthesis, characterization and antibacterial applications. <i>European Polymer Journal</i> , 2019, 116, 65-73.	2.6	5
17	Antibacterial properties of polypyrrole-treated fabrics by ultrasound deposition. <i>Materials Science and Engineering C</i> , 2019, 102, 164-170.	3.8	50
18	Antibacterial Activity against Methicillin-Resistant <i>Staphylococcus aureus</i> of Colloidal Polydopamine Prepared by Carbon Dot Stimulated Polymerization of Dopamine. <i>Nanomaterials</i> , 2019, 9, 1731.	1.9	36

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19	Engineering of a New Bisphosphonate Monomer and Nanoparticles of Narrow Size Distribution for Antibacterial Applications. <i>ACS Omega</i> , 2018, 3, 1458-1469.	1.6	5
20	Structure–function analyses of a PL24 family ulvan lyase reveal key features and suggest its catalytic mechanism. <i>Journal of Biological Chemistry</i> , 2018, 293, 4026-4036.	1.6	39
21	Imparting superhydrophobic and biocidal functionalities to a polymeric substrate by the sonochemical method. <i>Ultrasonics Sonochemistry</i> , 2018, 44, 398-403.	3.8	10
22	SawR a new regulator controlling pyomelanin synthesis in <i>Pseudomonas aeruginosa</i> . <i>Microbiological Research</i> , 2018, 206, 91-98.	2.5	19
23	Structural and functional characterization of PL28 family ulvan lyase NLR48 from <i>Nonlabens ulvanivorans</i> . <i>Journal of Biological Chemistry</i> , 2018, 293, 11564-11573.	1.6	25
24	Engineering of crosslinked poly(isothiuronium methylstyrene) microparticles of narrow size distribution for antibacterial applications. <i>Polymers for Advanced Technologies</i> , 2017, 28, 188-192.	1.6	3
25	Note: Multiphase thermoplastic hybrid for controlled release of antimicrobial essential oils in active packaging film. <i>Polymers for Advanced Technologies</i> , 2017, 28, 564-564.	1.6	0
26	From Nano to Micro: using nanotechnology to combat microorganisms and their multidrug resistance. <i>FEMS Microbiology Reviews</i> , 2017, 41, 302-322.	3.9	178
27	Functional characterization of a novel <i>ulvan utilization loci</i> found in <i>Alteromonas</i> sp. LOR genome. <i>Algal Research</i> , 2017, 25, 39-46.	2.4	49
28	Editorial: Bacterial pathogens, antibiotics and antibiotic resistance. <i>FEMS Microbiology Reviews</i> , 2017, 41, 450-452.	3.9	116
29	Note: Engineering of crosslinked poly(isothiuronium methylstyrene) microparticles of narrow size distribution for antibacterial applications. <i>Polymers for Advanced Technologies</i> , 2017, 28, 568-568.	1.6	0
30	New Ulvan-Degrading Polysaccharide Lyase Family: Structure and Catalytic Mechanism Suggests Convergent Evolution of Active Site Architecture. <i>ACS Chemical Biology</i> , 2017, 12, 1269-1280.	1.6	60
31	Catheters coated with Zn-doped CuO nanoparticles delay the onset of catheter-associated urinary tract infections. <i>Nano Research</i> , 2017, 10, 520-533.	5.8	59
32	Measuring Cyclic Diguanylate (c-di-GMP)-Specific Phosphodiesterase Activity Using the MANT-c-di-GMP Assay. <i>Methods in Molecular Biology</i> , 2017, 1657, 263-278.	0.4	1
33	A symbiotic-like biologically-driven regenerating fabric. <i>Scientific Reports</i> , 2017, 7, 8528.	1.6	6
34	Engineering of crosslinked polyisothiuronium methylstyrene microparticles of narrow size distribution for antibacterial applications. <i>Polymers for Advanced Technologies</i> , 2017, 28, 1730-1734.	1.6	2
35	NANOCl– Nanotechnology Based Cochlear Implant With Gapless Interface to Auditory Neurons. <i>Otology and Neurotology</i> , 2017, 38, e224-e231.	0.7	38
36	Ga@C-dots as an antibacterial agent for the eradication of <i>Pseudomonas aeruginosa</i> . <i>International Journal of Nanomedicine</i> , 2017, Volume 12, 725-730.	3.3	29

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37	Multiphase thermoplastic hybrid for controlled release of antimicrobial essential oils in active packaging film. <i>Polymers for Advanced Technologies</i> , 2016, 27, 1476-1483.	1.6	4
38	Engineering of Superparamagnetic Core-Shell Iron Oxide/N-Chloramine Nanoparticles for Water Purification. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 18488-18495.	4.0	21
39	Synthesis and characterization of crosslinked polyisothiuronium methylstyrene nanoparticles of narrow size distribution for antibacterial and antibiofilm applications. <i>Journal of Nanobiotechnology</i> , 2016, 14, 56.	4.2	9
40	Production of 1,3-propanediol from glycerol via fermentation by <i>Saccharomyces cerevisiae</i> . <i>Green Chemistry</i> , 2016, 18, 4657-4666.	4.6	39
41	Engineering of new methylstyrene farmin vinylic monomer and crosslinked poly(methylstyrene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Polymer, 2016, 100, 95-101.	1.8	5
42	Graft polymerization of styryl bisphosphonate monomer onto polypropylene films for inhibition of biofilm formation. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 147, 300-306.	2.5	9
43	Surfactant-free synthesis of a water-soluble PEGylated nanographeneoxide/metal-oxide nanocomposite as engineered antimicrobial weaponry. <i>Journal of Materials Chemistry B</i> , 2016, 4, 6706-6715.	2.9	4
44	Two are Better than One: Combining ZnO and MgF ₂ Nanoparticles Reduces <i>Streptococcus pneumoniae</i> and <i>Staphylococcus aureus</i> Biofilm Formation on Cochlear Implants. <i>Advanced Functional Materials</i> , 2016, 26, 2473-2481.	7.8	36
45	Draft Genome Sequences of Two Multidrug-Resistant Extended-Spectrum-β-Lactamase-Producing <i>Klebsiella pneumoniae</i> Strains Causing Bloodstream Infections. <i>Genome Announcements</i> , 2016, 4, .	0.8	1
46	New Family of Ulvan Lyases Identified in Three Isolates from the Alteromonadales Order. <i>Journal of Biological Chemistry</i> , 2016, 291, 5871-5878.	1.6	42
47	New Life for an Old Antibiotic. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 7324-7333.	4.0	21
48	Oligoribonuclease is a central feature of cyclic diguanylate signaling in <i>Pseudomonas aeruginosa</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 11359-11364.	3.3	99
49	Killing Mechanism of Stable N-Halamine Cross-Linked Polymethacrylamide Nanoparticles That Selectively Target Bacteria. <i>ACS Nano</i> , 2015, 9, 1175-1188.	7.3	70
50	Novel Type III Effectors in <i>Pseudomonas aeruginosa</i> . <i>MBio</i> , 2015, 6, e00161.	1.8	37
51	Antibiotic nanoparticles embedded into the Parylene C layer as a new method to prevent medical device-associated infections. <i>Journal of Materials Chemistry B</i> , 2015, 3, 59-64.	2.9	24
52	Biofilm prevention on cochlear implants. <i>Cochlear Implants International</i> , 2014, 15, 173-178.	0.5	18
53	Synthesis and characterization of fluoro-modified polypropylene films for inhibition of biofilm formation. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 115, 8-14.	2.5	12
54	The combined effect of additives and processing on the thermal stability and controlled release of essential oils in antimicrobial films. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	1.3	12

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55	The effect of polyethylene crystallinity and polarity on thermal stability and controlled release of essential oils in antimicrobial films. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	1.3	13
56	A Zn-doped CuO Nanocomposite Shows Enhanced Antibiofilm and Antibacterial Activities Against <i>Streptococcus Mutans</i> Compared to Nanosized CuO. <i>Advanced Functional Materials</i> , 2014, 24, 1382-1390.	7.8	83
57	Biofilm formation and susceptibility to gentamicin and colistin of extremely drug-resistant KPC-producing <i>Klebsiella pneumoniae</i> . <i>Journal of Antimicrobial Chemotherapy</i> , 2014, 69, 1027-1034.	1.3	63
58	The <i>Pseudomonas aeruginosa</i> phosphate transport protein PstS plays a phosphate-independent role in biofilm formation. <i>FASEB Journal</i> , 2014, 28, 5223-5233.	0.2	21
59	Characterization and antibacterial properties of N-halamine-derivatized cross-linked polymethacrylamide nanoparticles. <i>Biomaterials</i> , 2014, 35, 5079-5087.	5.7	66
60	Changes in Microbial Communities Associated with the Sea Anemone <i>Anemonia viridis</i> in a Natural pH Gradient. <i>Microbial Ecology</i> , 2013, 65, 269-276.	1.4	19
61	MgF ₂ nanoparticle-coated teeth inhibit <i>Streptococcus mutans</i> biofilm formation on a tooth model. <i>Journal of Materials Chemistry B</i> , 2013, 1, 3985.	2.9	18
62	Eradication of Multi-Drug Resistant Bacteria by a Novel Zn-doped CuO Nanocomposite. <i>Small</i> , 2013, 9, 4069-4076.	5.2	177
63	The Effect of <i>pstS</i> and <i>phoB</i> on Quorum Sensing and Swarming Motility in <i>Pseudomonas aeruginosa</i> . <i>PLoS ONE</i> , 2013, 8, e74444.	1.1	59
64	Antibiofilm surface functionalization of catheters by magnesium fluoride nanoparticles. <i>International Journal of Nanomedicine</i> , 2012, 7, 1175.	3.3	86
65	Sonochemical Coatings of ZnO and CuO Nanoparticles Inhibit <i>Streptococcus mutans</i> Biofilm Formation on Teeth Model. <i>Langmuir</i> , 2012, 28, 12288-12295.	1.6	124
66	New synthesis, characterization and antibacterial properties of porous ZnO and C-ZnO micrometre-sized particles of narrow size distribution. <i>Journal of Materials Chemistry</i> , 2012, 22, 3614.	6.7	22
67	Improved antibacterial and antibiofilm activity of magnesium fluoride nanoparticles obtained by water-based ultrasound chemistry. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2012, 8, 702-711.	1.7	74
68	Understanding the Antibacterial Mechanism of CuO Nanoparticles: Revealing the Route of Induced Oxidative Stress. <i>Small</i> , 2012, 8, 3326-3337.	5.2	448
69	ZnO nanoparticle-coated surfaces inhibit bacterial biofilm formation and increase antibiotic susceptibility. <i>RSC Advances</i> , 2012, 2, 2314.	1.7	184
70	Changes in coral microbial communities in response to a natural pH gradient. <i>ISME Journal</i> , 2012, 6, 1775-1785.	4.4	98
71	Antibacterial and antibiofilm properties of yttrium fluoride nanoparticles. <i>International Journal of Nanomedicine</i> , 2012, 7, 5611.	3.3	49
72	Multi-species biofilms: living with friendly neighbors. <i>FEMS Microbiology Reviews</i> , 2012, 36, 990-1004.	3.9	607

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73	Surface acoustic waves increase the susceptibility of <i>Pseudomonas aeruginosa</i> biofilms to antibiotic treatment. <i>Biofouling</i> , 2011, 27, 701-711.	0.8	37
74	The impact of reduced pH on the microbial community of the coral <i>Acropora eurystroma</i> . <i>ISME Journal</i> , 2011, 5, 51-60.	4.4	217
75	Direct laser light enhancement of susceptibility of bacteria to gentamicin antibiotic. <i>Optics Communications</i> , 2011, 284, 5501-5507.	1.0	4
76	Novel Triclosan-Bound Hybrid-Silica Nanoparticles and their Enhanced Antimicrobial Properties. <i>Advanced Functional Materials</i> , 2011, 21, 4295-4304.	7.8	36
77	Synthesis and characterization of zinc/iron oxide composite nanoparticles and their antibacterial properties. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2011, 374, 1-8.	2.3	278
78	FvbA is required for vibriobactin utilization in <i>Pseudomonas aeruginosa</i> . <i>Microbiology (United Kingdom)</i> , 2010, 154, 107-114.	0.7	28
79	Increase in Rhamnolipid Synthesis under Iron-Limiting Conditions Influences Surface Motility and Biofilm Formation in <i>Pseudomonas aeruginosa</i> . <i>Journal of Bacteriology</i> , 2010, 192, 2973-2980.	1.0	140
80	Role of Flagella in Virulence of the Coral Pathogen <i>Vibrio coralliilyticus</i> . <i>Applied and Environmental Microbiology</i> , 2009, 75, 5704-5707.	1.4	51
81	Antibiofilm activity of nanosized magnesium fluoride. <i>Biomaterials</i> , 2009, 30, 5969-5978.	5.7	150
82	The role of microorganisms in coral bleaching. <i>ISME Journal</i> , 2009, 3, 139-146.	4.4	111
83	Influence of Quorum Sensing and Iron on Twitching Motility and Biofilm Formation in <i>Pseudomonas aeruginosa</i> . <i>Journal of Bacteriology</i> , 2008, 190, 662-671.	1.0	173
84	The potential of desferrioxamine-gallium as an anti- <i>Pseudomonas</i> therapeutic agent. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 16761-16766.	3.3	238
85	Chelator-Induced Dispersal and Killing of <i>Pseudomonas aeruginosa</i> Cells in a Biofilm. <i>Applied and Environmental Microbiology</i> , 2006, 72, 2064-2069.	1.4	414
86	From The Cover: Iron and <i>Pseudomonas aeruginosa</i> biofilm formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 11076-11081.	3.3	714
87	A Novel Linear Code Nomenclature for Complex Carbohydrates.. <i>Trends in Glycoscience and Glycotechnology</i> , 2002, 14, 127-137.	0.0	79
88	Proline-Rich Peptide from the Coral Pathogen <i>Vibrio shiloi</i> That Inhibits Photosynthesis of Zooxanthellae. <i>Applied and Environmental Microbiology</i> , 2001, 67, 1536-1541.	1.4	95
89	Role of endosymbiotic zooxanthellae and coral mucus in the adhesion of the coral-bleaching pathogen <i>Vibrio shiloi</i> to its host. <i>FEMS Microbiology Letters</i> , 2001, 199, 33-37.	0.7	101