Dan Tchernov

List of Publications by Year in descending order

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86 papers	4,534 citations	172457 29 h-index	110387 64 g-index
91 all docs	91 docs citations	91 times ranked	4940 citing authors

#	Article	IF	Citations
1	Soft Robotic Grippers for Biological Sampling on Deep Reefs. Soft Robotics, 2016, 3, 23-33.	8.0	624
2	Membrane lipids of symbiotic algae are diagnostic of sensitivity to thermal bleaching in corals. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 13531-13535.	7.1	543
3	Scleractinian Coral Species Survive and Recover from Decalcification. Science, 2007, 315, 1811-1811.	12.6	264
4	Genes Encoding A-Type Flavoproteins Are Essential for Photoreduction of O2 in Cyanobacteria. Current Biology, 2003, 13, 230-235.	3.9	256
5	Flow enhances photosynthesis in marine benthic autotrophs by increasing the efflux of oxygen from the organism to the water. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 2527-2531.	7.1	180
6	Apoptosis and the selective survival of host animals following thermal bleaching in zooxanthellate corals. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 9905-9909.	7.1	173
7	Inhibition of growth and photosynthesis of the dinoflagellate Peridinium gatunense by Microcystis sp. (cyanobacteria): A novel allelopathic mechanism. Limnology and Oceanography, 2002, 47, 1656-1663.	3.1	169
8	Comparative genomics explains the evolutionary success of reef-forming corals. ELife, 2016, 5, .	6.0	169
9	The Covert World of Fish Biofluorescence: A Phylogenetically Widespread and Phenotypically Variable Phenomenon. PLoS ONE, 2014, 9, e83259.	2.5	135
10	Sustained net CO2 evolution during photosynthesis by marine microorganism. Current Biology, 1997, 7, 723-728.	3.9	112
11	Extracellular Production and Degradation of Superoxide in the Coral Stylophora pistillata and Cultured Symbiodinium. PLoS ONE, 2010, 5, e12508.	2.5	99
12	Changes in morphology and diet of the coral Stylophora pistillata along a depth gradient. Marine Ecology - Progress Series, 2009, 381, 167-174.	1.9	92
13	Locally accelerated growth is part of the innate immune response and repair mechanisms in reef-building corals as detected by green fluorescent protein (GFP)-like pigments. Coral Reefs, 2012, 31, 1045-1056.	2.2	83
14	Light, Temperature, Photosynthesis, Heterotrophy, and the Lower Depth Limits of Mesophotic Coral Ecosystems. Coral Reefs of the World, 2019, , 801-828.	0.7	78
15	Passive Entry of CO2 and Its Energy-dependent Intracellular Conversion to HCO3â^' in Cyanobacteria Are Driven by a Photosystem I-generated Î”Î¼H+. Journal of Biological Chemistry, 2001, 276, 23450-23455.	3.4	75
16	Regulation of Apoptotic Pathways by Stylophora pistillata (Anthozoa, Pocilloporidae) to Survive Thermal Stress and Bleaching. PLoS ONE, 2011, 6, e28665.	2.5	70
17	Massive light-dependent cycling of inorganic carbon between oxygenic photosynthetic microorganisms and their surroundings. Photosynthesis Research, 2003, 77, 95-103.	2.9	66
18	Breakdown of coral colonial form under reduced pH conditions is initiated in polyps and mediated through apoptosis. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 2082-2086.	7.1	65

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19	Changes in scleractinian coral Seriatopora hystrix morphology and its endocellular Symbiodinium characteristics along a bathymetric gradient from shallow to mesophotic reef. Coral Reefs, 2011, 30, 1089-1100.	2.2	64
20	Light-Induced Changes within Photosystem II Protects Microcoleus sp. in Biological Desert Sand Crusts against Excess Light. PLoS ONE, 2010, 5, e11000.	2.5	62
21	Acclimatization of symbiotic corals to mesophotic light environments through wavelength transformation by fluorescent protein pigments. Proceedings of the Royal Society B: Biological Sciences, 2017, 284, 20170320.	2.6	60
22	Migratory corridors and foraging hotspots: critical habitats identified for Mediterranean green turtles. Diversity and Distributions, 2015, 21, 665-674.	4.1	57
23	Physiological and Biogeochemical Responses of Super-Corals to Thermal Stress from the Northern Gulf of Aqaba, Red Sea. Frontiers in Marine Science, 2017, 4, .	2.5	57
24	UPTAKE, EFFLUX, AND PHOTOSYNTHETIC UTILIZATION OF INORGANIC CARBON BY THE MARINE EUSTIGMATOPHYTE NANNOCHLOROPSIS SP.1. Journal of Phycology, 1997, 33, 969-974.	2.3	55
25	Seasonal Mesophotic Coral Bleaching of Stylophora pistillata in the Northern Red Sea. PLoS ONE, 2014, 9, e84968.	2.5	51
26	Novel Adaptive Photosynthetic Characteristics of Mesophotic Symbiotic Microalgae within the Reef-Building Coral, Stylophora pistillata. Frontiers in Marine Science, 2016, 3, .	2.5	48
27	The regulation of thermal stress induced apoptosis in corals reveals high similarities in gene expression and function to higher animals. Scientific Reports, 2016, 6, 30359.	3.3	42
28	Energy Sources of the Depth-Generalist Mixotrophic Coral Stylophora pistillata. Frontiers in Marine Science, 2020, 7, 988.	2.5	36
29	First Evidence for the Presence of Iron Oxidizing Zetaproteobacteria at the Levantine Continental Margins. PLoS ONE, 2014, 9, e91456.	2.5	35
30	Hydrocarbon-related microbial processes in the deep sediments of the Eastern Mediterranean Levantine Basin. FEMS Microbiology Ecology, 2014, 87, 780-796.	2.7	35
31	Shallow-water wave lensing in coral reefs: a physical and biological case study. Journal of Experimental Biology, 2010, 213, 4304-4312.	1.7	28
32	Molecular and skeletal fingerprints of scleractinian coral biomineralization: From the sea surface to mesophotic depths. Acta Biomaterialia, 2021, 120, 263-276.	8.3	27
33	An Active Acoustic Track-Before-Detect Approach for Finding Underwater Mobile Targets. IEEE Journal on Selected Topics in Signal Processing, 2019, 13, 104-119.	10.8	24
34	Transcriptome deep-sequencing and clustering of expressed isoforms from Favia corals. BMC Genomics, 2013, 14, 546.	2.8	22
35	Specific pathogens and microbial abundance within liver and kidney tissues of wild marine fish from the Eastern Mediterranean Sea. Microbial Biotechnology, 2020, 13, 770-780.	4.2	22
36	Repeatable Semantic Reef-Mapping through Photogrammetry and Label-Augmentation. Remote Sensing, 2021, 13, 659.	4.0	22

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37	The inorganic carbon-concentrating mechanism in cyanobacteria: induction and ecological significance. Canadian Journal of Botany, 1998, 76, 917-924.	1.1	22
38	Photoacclimation mechanisms of corallimorpharians on coral reefs: Photosynthetic parameters of zooxanthellae and host cellular responses to variation in irradiance. Journal of Experimental Marine Biology and Ecology, 2010, 394, 53-62.	1.5	21
39	Evolutionary Traits that Enable Scleractinian Corals to Survive Mass Extinction Events. Scientific Reports, 2020, 10, 3903.	3.3	21
40	Evolution of fringing reefs: space and time constraints from the Gulf of Aqaba. Coral Reefs, 2005, 24, 165-172.	2.2	20
41	Tracing the Trophic Plasticity of the Coralâ€“Dinoflagellate Symbiosis Using Amino Acid Compound-Specific Stable Isotope Analysis. Microorganisms, 2021, 9, 182.	3.6	20
42	Automated Analysis of Marine Video with Limited Data. , 2018, , .		19
43	Prevalence of nervous necrosis virus (NNV) and Streptococcus species in wild marine fish and crustaceans from the Levantine Basin, Mediterranean Sea. Diseases of Aquatic Organisms, 2019, 133, 7-17.	1.0	19
44	Role of coral-derived chemical cues in microhabitat selection by settling Chromis viridis. Marine Ecology - Progress Series, 2010, 409, 181-187.	1.9	19
45	Detection of Toxoplasma gondii in three common bottlenose dolphins (Tursiops truncatus); A first description from the Eastern Mediterranean Sea. Veterinary Parasitology, 2018, 258, 74-78.	1.8	18
46	A novel paleo-bleaching proxy using boron isotopes and high-resolution laser ablation to reconstruct coral bleaching events. Biogeosciences, 2015, 12, 5677-5687.	3.3	17
47	Untangling ITS2 genotypes of algal symbionts in zooxanthellate corals. Molecular Ecology Resources, 2021, 21, 137-152.	4.8	17
48	A survey of arsenic, mercury, cadmium, and lead residues in seafood (fish, crustaceans, and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 302 T	3.1	17
49	Shark aggregation and tourism: opportunities and challenges of an emerging phenomenon. International Journal of Sustainable Development and World Ecology, 2019, 26, 406-414.	5.9	16
50	On the occurrence and identification of Abudefduf saxatilis (Linnaeus, 1758) in the easternmost Mediterranean Sea. Aquatic Invasions, 2015, 10, 101-105.	1.6	16
51	A small fishery with a high impact on sea turtle populations in the eastern Mediterranean. Zoology in the Middle East, 2015, 61, 300-317.	0.6	15
52	Photosynthesizing marine microorganisms can constitute a source of CO₂ rather than a sink. Canadian Journal of Botany, 1998, 76, 949-953.	1.1	15
53	Evidence of the impacts of emerging shark tourism in the Mediterranean. Ocean and Coastal Management, 2019, 178, 104847.	4.4	14
54	Photophysiology of a mesophotic coral 3Âyears after transplantation to a shallow environment. Coral Reefs, 2020, 39, 903-913.	2.2	14

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55	Molecular Identification and Characterization of Vibrio Species and Mycobacterium Species in Wild and Cultured Marine Fish from the Eastern Mediterranean Sea. Microorganisms, 2020, 8, 863.	3.6	13
56	Mechanisms of habitat segregation between corallimorpharians: photosynthetic parameters and Symbiodinium types. Marine Ecology - Progress Series, 2008, 369, 115-129.	1.9	13
57	Spatiotemporal hotspots of habitat use by loggerhead (Caretta caretta) and green (Chelonia mydas) sea turtles in the Levant basin as tools for conservation. Marine Ecology - Progress Series, 2017, 575, 165-179.	1.9	13
58	The kinetic properties of ribulose-1,5-bisphosphate carboxylase/oxygenase may explain the high apparent photosynthetic affinity of <i>Nannochloropsis</i> sp. to ambient inorganic carbon. Israel Journal of Plant Sciences, 2008, 56, 37-44.	0.5	12
59	Classification of Underwater Fish Images and Videos via Very Small Convolutional Neural Networks. Journal of Marine Science and Engineering, 2022, 10, 736.	2.6	11
60	Resolving the biological role of the Rhesus (Rh) proteins of red blood cells with the aid of a green alga. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 7497-7498.	7.1	10
61	Investigation into the CO2 concentrating step rates within the carbon concentrating mechanism of Synechocystis sp. PCC6803 at various pH and light intensities reveal novel mechanistic properties. Algal Research, 2018, 33, 419-429.	4.6	10
62	Physiological and Transcriptomic Variability Indicative of Differences in Key Functions Within a Single Coral Colony. Frontiers in Marine Science, 2021, 8, .	2.5	10
63	New evidence of Melithaea erythraea colonization in the Mediterranean. Estuarine, Coastal and Shelf Science, 2020, 236, 106652.	2.1	9
64	The inorganic carbon-concentrating mechanism in cyanobacteria: induction and ecological significance. Canadian Journal of Botany, 1998, 76, 917-924.	1.1	8
65	Cultivating marine macroalgae in CO2-enriched seawater: A bio-economic approach. Aquaculture, 2021, 544, 737042.	3.5	8
66	Novel Internal Regions of Fluorescent Proteins Undergo Divergent Evolutionary Patterns. Molecular Biology and Evolution, 2009, 26, 2841-2848.	8.9	7
67	Distribution of the Lamellibrachia spp. (Siboglinidae, Annelida) and their trophosome endosymbiont phylotypes in the Mediterranean Sea. Marine Biology, 2014, 161, 1229-1239.	1.5	7
68	Isotopic fractionation of carbon in the coccolithophorid Emiliania huxleyi. Marine Ecology - Progress Series, 2014, 508, 53-66.	1.9	7
69	Metamitron, a Photosynthetic Electron Transport Chain Inhibitor, Modulates the Photoprotective Mechanism of Apple Trees. Plants, 2021, 10, 2803.	3.5	7
70	Fatal Infection in a Wild Sandbar Shark (Carcharhinus plumbeus), Caused by Streptococcus agalactiae, Type Ia-ST7. Animals, 2020, 10, 284.	2.3	6
71	Effect of Different Derivatization Protocols on the Calculation of Trophic Position Using Amino Acids Compound-Specific Stable Isotopes. Frontiers in Marine Science, 2020, 7, .	2.5	6
72	First record of Aequorea macrodactyla (Cnidaria, Hydrozoa) from the Israeli coast of the eastern Mediterranean Sea, an alien species indicating invasive pathways. NeoBiota, 0, 26, 55-70.	1.0	6

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73	First Isolation and Characterization of Streptococcus agalactiae From a Stranded Wild Common Dolphin (Delphinus delphis). Frontiers in Marine Science, 2022, 9, .	2.5	6
74	Cold seep biogenic carbonate crust in the Levantine basin is inhabited by burrowing Phascolosoma aff. turnerae, a sipunculan worm hosting a distinctive microbiota. Deep-Sea Research Part I: Oceanographic Research Papers, 2014, 90, 17-26.	1.4	5
75	Acclimation of a rocky shore algal reef builderNeogoniolithonsp. to changing illuminations. Limnology and Oceanography, 2020, 65, 27-36.	3.1	5
76	Indigenous versus Lessepsian Hosts: Nervous Necrosis Virus (NNV) in Eastern Mediterranean Sea Fish. Viruses, 2020, 12, 430.	3.3	5
77	Symbiotic transition of algaeâ€“coral triggered by paleoclimatic events?. Trends in Ecology and Evolution, 2012, 27, 194-195.	8.7	4
78	Predicting Impacts of Offshore Monoculture Farm Expansion in Ultra-Oligotrophic Waters of the Levantine Basin. Frontiers in Marine Science, 2020, 7, .	2.5	4
79	Preliminary insights of a mixed-species shark aggregation: a case study of two carcharhinids from the Mediterranean Sea. Environmental Biology of Fishes, 2022, 105, 623-634.	1.0	4
80	The Microbiome Associated with the Reef Builder Neogoniolithon sp. in the Eastern Mediterranean. Microorganisms, 2021, 9, 1374.	3.6	3
81	The worm affair: fidelity and environmental adaptation in symbiont species that coâ€•occur in vestimentiferan tubeworms. Environmental Microbiology Reports, 2021, 13, 744-752.	2.4	3
82	A Systematic Review of the Behavioural Changes and Physiological Adjustments of Elasmobranchs and Teleostâ€™s to Ocean Acidification with a Focus on Sharks. Fishes, 2022, 7, 56.	1.7	3
83	A Quantitative Management Tool Reflecting Impact of Nutrient Enrichment from Mariculture in the Levantine Basin. Frontiers in Marine Science, 2017, 4, .	2.5	2
84	Comparative Study between the Photosynthetic Parameters of Two Avocado (Persea americana) Cultivars Reveals Natural Variation in Light Reactions in Response to Frost Stress. Agronomy, 2022, 12, 1129.	3.0	2
85	Comparative genetics of scyphozoan species reveals the geological history and contemporary processes of the Mediterranean Sea. Ecology and Evolution, 2021, 11, 10303-10319.	1.9	1
86	Ocean warming is the key filter for successful colonization of the migrant octocoral Melithaea erythraea (Ehrenberg, 1834) in the Eastern Mediterranean Sea. PeerJ, 2020, 8, e9355.	2.0	1