**IUI Publications**

***2019***

1. **Alonso, I., Yuval, M., Eyal, G., Treibitz, T. & A.C. Murillo** (2019) CoralSeg: Learning coral segmentation from sparse annotations. *J. Field Robotics* 36:1456-1477.
2. **Asher, S. & U. Shavit** (2019) The effect of water depth and internal geometry on the turbulent flow inside a coral reef. *JGR Oceans* 124:3508-3522.
3. **Akkaynak, D. & T. Treibitz** (2019) Sea-Thru: A method for removing water from underwater images. *In: Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition.* pp. 1682-1691.
4. **Antler, G., Mills, J.V., Hutchings, A.M., Redeker, K.R. & A.V. Turchyn** (2019) The sedimentary carbon-sulfur-iron-interplay. A lesson from East Anglian salt marsh sediments. *Front. Earth. Sci.* 7:140.
5. **Apostolaki, E.T., Vizzini, S., Santinelli, V., Kaberi, H., Andolina, C. & E. Papathanassiou** (2019) Exotic *Halophila stipulacea* is an introduced carbon sink for the Eastern Mediterranean Sea. *Sci. Rep.* 9:9643.
6. **Ayalon, I., de Barros Marangoni, L.F., Benichou, J.I.C., Avisar, D. & O. Levy** (2019) Red Sea corals under artificial light pollution at night (ALAN) undergo oxidative stress and photosynthetic impairment. *Glob. Change Biol.* 25:4194-4207.
7. **Bange, H.W., Kock, A., Pelz, N., Schmidt, M., Schutte, F., Walter, S., Post, A.F., Jones, B.H. & B. Kurten** (2019) Nitrous oxide in the northern Gulf of Aqaba and the central Red Sea. *Deep Sea Res. II* 166:90-103.
8. **Bassi, D., Braga, J.C., di Domenico, G., Pignatti, J., Abramovich, S., Hallock, P., Konen, J., Kovacs, Z., Langer, M.R., Pavia, G. & Y. Iryu** (2019) Palaeobiogeography and evolutionary patterns of the larger foraminifer *Borelis de Montfort (Borelidae)*. *Pap. Palaeontol.* [in press].
9. **Basu, S., Gledhill, M., de Beer, D., Matondkar, S.G. P. & Y. Shaked** (2019) Colonies of marine cyanobacteria *Trichodesmium* interact with associated bacteria to acquire iron from dust. *Commun. Biol.* 2:284.
10. **Bellworthy, J., Menoud, M., Krueger, T., Meibom, A. & M. Fine** (2019) Developmental carryover effects of ocean warming and acidification in corals from a potential climate refugium, Gulf of Aqaba. *J. Exp. Biol.* 222:j186940.
11. **Bellworthy, J., Spangenberg, J.E. & M. Fine** (2019) Feeding increases the number of offspring by decreases parental investment of Red Sea coral *Stylophora pistillata. Ecol. Evol.* 9:12245-12258.
12. **Benayahu, Y., Bridge, T.C.L., Colin, P.L., Liberman, R., McFadden, C.S., Pizarro, O., Schleyer, M.H., Shoham, E., Reijnen, B.T., Weis, M. & J. Tanaka** (2019) Octocorals of the Indo-Pacific. *In: Mesophotic Coral Ecosystems (Coral Reefs of the World 12). Loya, Y., Puglise, K. & T. Bridge (Eds.); Springer, Cham.* pp.709-728.
13. **Banc-Prandi, G. & M. Fine** (2019) Copper enrichment reduces thermal tolerance of the highly resistant Red Sea coral *Stylophora pistillata*. *Coral Reefs* 38:285-296.
14. **Ben-Zvi, O., Eyal, G. & Y. Loya** (2019) Response of fluorescence morphs of the mesophotic coral *Euphyllia paradivisa* to ultra-violet radiation. *Sci. Rep.* 9:5245.
15. **Berman, H., Paldor, N., Churchill, J. & B. Lazar** (2019) Constraining evaporation rates based on large scale sea-surface transects of salinity or isotopic compositions. *JGR: Oceans* 124:1322-1330.
16. **Boyko, V., Blonder, B. & A. Kamyshny** (2019) Sources and transformations of iron in the sediments of the Gulf of Aqaba (Red Sea). *Mar. Chem.* 216:103691.
17. **Cattano, C., Fine, M., Quattrocchi, F., Holzman, R. & M. Milazzo** (2019) Behavioural responses of fish groups exposed to a predatory threat under elevated CO2. *Mar. Environ. Res.* 147:179-184.
18. **Caves, E.M., Chen, C. & S. Johnsen** (2019) The cleaner shrimp *Lysmata amboinensis* adjusts its behaviour towards predatory versus non-predatory clients. *Biol. Lett.* 15:20190534.
19. **Chien, C-T., Benaltabet, T., Torfstein, A. & A. Paytan** (2019) Contributions of atmospheric deposition to Pb concentration and isotopic composition in seawater and particulate matters in the Gulf of Aqaba, Red Sea. *Environ. Sci. Technol.* 53:6162-6170.
20. **Coronado, I., Fine, M., Bosellini, F.R. & J. Stolarski** (2019) Impact of ocean acidification on crystallographic vital effect of the coral skeleton. *Nature Comm.* 10:2896.
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24. **Eichner, M., Basu, S., Gledhill, M., de Beer, D. & Y. Shaked** (2019) Hydrogen dynamics in Trichodesmium colonies and their potential role in mineral iron acquisition. *Front. Microbiol.* 10:1565.
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26. **Eyal-Shaham, L., Eyal, G., Sakai, K., Nozawa, Y., Harii, S., Sinniger, F., Bronstein, O., Ben-Zvi, O., Shlesinger, T. & Y. Loya** (2019) Repetitive sex change in the stony coral *Herpolitha limax* across a wide geographic range. *Sci. Rep.* 9:2936.
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28. **Eyal, G., Tamir, R., Kramer, N., Eyal-Shoham, L. & Y. Loya** (2019) The Red Sea: Israel. *In: Mesophotic Coral Ecosystems (Coral Reefs of the World 12). Loya, Y., Puglise, K. & T. Bridge (Eds.); Springer, Cham.* pp. 199-214.
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31. **Fish, F.E. & R. Holzman** (2019) Swimming turned on its head: Stability and maneuverability of the shrimpfish (*Aeoliscus punctulatus*). *Integr. Organ. Biol.* 1:obz025.
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35. **Gledhill, M., Basu, S. & Y. Shaked** (2019) Metallophores associated with *Trichodesmium erythraeum* colonies from the Gulf of Aqaba. *Metallomics* 11:1547-1557.
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41. **Kahng, S.E., Akkaynak, D., Shlesinger, T., Hochberg, E.J., Weidenmann, J., Tamir, R. & D. Tchernov** (2019) Light, temperature, photosynthesis, heterotrophy, and the lower depth limits of mesophotic coral ecosystems*. In: Mesophotic Coral Ecosystems (Coral Reefs of thorld 12). Loya, Y., Puglise, K. & T. Bridge (Eds.); Springer, Cham.* pp.801-828.
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