

REFERENCES

Patel K. J. 2023. Ecological studies on Hermit crab *Clibanarius rhabdodactylus* Forest, 1953 in Rocky Intertidal zone of Saurashtra coast, Gujarat. Ph. D. Thesis.

- Abele, L. G. (1974). Species diversity of decapod crustaceans in marine habitats. *Ecology*, 55(1): 156–161.
- Abd El, F. E. Z. A., Aziz, K. F., Obuid-Allah, A. H. and Faraj, O. (2015). Occupancy of gastropod shells by the hermit crab *Clibanarius erythropus* (Crustacea, Anomura) inhabiting the Mediterranean Sea coast of Libya. *International Journal of Advanced Research*, 3: 68–76.
- Abrams, P. (1978). Shell selection and utilization in a terrestrial hermit crab, *Coenobita compressus* (H. Milne Edwards). *Oecologia*, 34(2): 239–253.
- Abrams, P. (1980). Some comments on measuring niche overlap. *Ecology*, 61(1): 44–49.
- Abrams, P. (1981a). Shell fighting and competition between two hermit crab species in Panama. *Oecologia*, 51(1): 84–90.
- Abrams, P. (1981b). Competition in an Indo-Pacific hermit crab community. *Oecologia*, 51(2): 240-249.
- Abrams, P. A. (1986). Character displacement and niche shift analyzed using consumer-resource models of competition. *Theoretical population biology*, 29(1): 107–160.
- Abrams, P. A. (1987a). An analysis of competitive interactions between 3 hermit crab species. *Oecologia*, 72(2): 233–247.
- Abrams, P. A. (1987b). Resource partitioning and competition for shells between intertidal hermit crabs on the outer coast of Washington. *Oecologia*, 72(2): 248–258.
- Abrams, P. A. (1988). Sexual difference in resource use in hermit crabs; consequences and causes. In: Chelazzi, G., Vannini, M. (eds) *Behavioral adaptation to intertidal life*. NATO ASI Series, vol 151. Springer, Boston, MA. pp. 283–296
- Abrams, P., Nyblade, C. and Sheldon, S. (1986). Resource partitioning and competition for shells in a subtidal hermit crab species assemblage. *Oecologia*, 69(3): 429–445.

Adiyodi, K. G. and Adiyodi, R. G. (1970). Endocrine control of reproduction in decapod Crustacea. *Biological Reviews*, 45(2): 121–164.

Ahyong, S. T., Baba, K., Macpherson, E. and Poore, G. C. (2010). A new classification of the Galatheoidea (Crustacea: Decapoda: Anomura). *Zootaxa*, 2676(1): 57–68.

Ahyong, S. T., Lowry, J. K., Alonso, M., Bamber, R. N., Boxshall, G. A., Castro, P., Gerken, S., Karaman, G. S., Goy, J. W., Jones, D. S., Meland, K., Rogers, D. C. and Svavarsson, J. (2011). Subphylum Crustacea Brünnich, (1772). In: Zhang, Z.-Q. (Ed.) Animal biodiversity: An outline of higher-level classification and survey of taxonomic richness. *Zootaxa*, 3148(1): 165.
<https://doi.org/10.11164/zootaxa.3148.1.33>

Alcaraz, G. and Kruesi, K. (2009). The role of previous shell occupancy in the wild on laboratory shell choice by the hermit crab *Calcinus californiensis*. *Marine and Freshwater Behaviour and Physiology*, 42(1): 55–62.

Alcaraz, G. and Kruesi, K. (2019). Niche overlap and resource partitioning between two intertidal hermit crab species. *Journal of Marine Biological Association of United Kingdom*, 99:135–142.

Alcaraz, G., Kruesi, K. and Burciaga, L. M. (2020a). The exploitation strategy determines the resource partitioning in hermit crabs. *Journal of Experimental Marine Biology and Ecology*, 523:151272.

Alcaraz, G., Toledo, B. and Burciaga, L. M. (2020b). The energetic costs of living in the surf and impacts on zonation of shells occupied by hermit crabs. *Journal of Experimental Biology*, 223(16): jeb222703.

Alcock, A. (1905). Anomura. Fasc. I. Pagurides. *Catalogue of the Indian Decapod Crustacea in the Collection of the Indian Museum* 2. Indian Museum, Calcutta, India, pp. 197.

Alexander, R. D., Hoogland, J. L., Howard, R. D., Noonan, K. M. and Sherman, P. W. (1979). Sexual dimorphisms and breeding systems in pinnipeds, ungulates, primates, and humans. *Evolutionary biology and human social behavior: An anthropological perspective*, 402–435.

- Allen, J. A. (1966). The rhythms and population dynamics of decapod Crustacea. *Oceanography and Marine Biology*, 4: 247–265.
- Ameyaw-Akumfi, C. (1975). The breeding biology of two sympatric species of tropical intertidal hermit crabs, *Clibanarius chapini* and *C. senegalensis*. *Marine Biology*, 29(1): 15–28.
- Amrutha, M. M. and Kumar, S. V. (2017). Characteristics of high monsoon wind-waves observed at multiple stations in the eastern Arabian Sea. *Ocean Science Discussion*, 1: 1–30.
- Andrewartha, H. G. and Birch, L. C. (1954). *The distribution and abundance of animals*. University of Chicago press. USA, pp. 782.
- Angel, J. E. (2000). Effects of shell fit on the biology of the hermit crab *Pagurus longicarpus* (Say). *Journal of Experimental Marine Biology and Ecology*, 243(2): 169–184.
- Angel, M. V. (1993). Biodiversity of the pelagic ocean. *Conservation Biology*, 7(4): 760–772.
- Appeltans, W., Ahyong, S. T., Anderson, G., Angel, M. V., Artois, T., Bailly, N. and Błażewicz-Paszkowycz, M. (2012). The magnitude of global marine species diversity. *Current Biology*, 22(23): 2189–2202.
- Apte, D. (2014). Sea Shells of India. Bombay Natural History Society, Mumbai, India, pp. 197.
- Araújo, R., Bárbara, I., Sousa-Pinto, I. and Quintino, V. (2005). Spatial variability of intertidal rocky shore assemblages in the northwest coast of Portugal. *Estuarine, Coastal and Shelf Science*, 64(4): 658–670.
- Arce, E. and Alcaraz, G. (2011). Shell use by the hermit crab *Calcinus californiensis* at different levels of the intertidal zone. *Scientia Marina*, 75(1): 121–128.
- Argüelles, A., Álvarez, F. and Alcaraz, G. (2009). Shell architecture and its relation to shell occupation by the hermit crab *Clibanarius antillensis* under different wave action conditions. *Scientia Marina*, 73(4): 717–723.

Argüelles-Ticó, A., Álvarez, F. and Alcaraz, G. (2010). Shell utilization by the hermit crab *Clibanarius antillensis* Stimpson (1862) (Crustacea Anomura) in intertidal rocky pools at Montepio, Veracruz, Mexico. Tropical Zoology, 23(1): 63–73.

Asakura, A. (1987). Population ecology of the sand-dwelling hermit crab, *Diogenes nitidimanus* Terao. 3. Mating system. Bulletin of Marine Science, 41: 226–233.

Asakura, A. (1991). Population ecology of the sand-dwelling hermit crab *Diogenes nitidimanus*. IV Larval settlement. Marine Ecology Progress Series, 78: 139–146.

Asakura, A. (1992). Population ecology of the sand-dwelling hermit crab *Diogenes nitidimanus* Terao. V. Ecological implications in the pattern of molting. Journal of crustacean biology, 12(4): 537–545.

Asakura, A. (1995). Sexual differences in life history and resource utilization by the hermit crab. Ecology, 76(7): 2295–2313.

Asakura, A. and Kikuchi, T. (1984). Population ecology of the sand dwelling hermit crab, *Diogenes nitidimanus* Terao. 2. Migration and life history. Publications from the Amakusa Marine Biological Laboratory, 7: 109–124

Audouin, J. V. and Milne-Edwards, H. (1832). Recherches pour servir à l'histoire naturelle du littoral de la France, ou, Recueil de mémoires sur l'anatomie, la physiologie, la classification et les moeurs des animaux des nos côtes: *ouvrage accompagné de planches faites d'après nature* (Vol. 2). pp. 406.

Baba, K., Macpherson, E., Poore, G.C.B., Ahyong, S.T., Bermudez, A., Cabezas, P., Lin, C.-W., Nizinski, M., Rodrigues, C. and Schnabel, K. E. (2008). Catalogue of squat lobsters of the world (Crustacea: Decapoda: Anomura-families Chirostylidae, Galatheidae and Kiwaidae). Zootaxa, 1905: 1–220.

Bach, C. B., Hazlett B. and Rittschof, D. (1976). Effects of interspecific competition on fitness of the hermit crab *Clibanarius tricolor*. Ecology 57: 579–586.

- Bach, C. E. and Hazlett, B. A. (2009). Shell shape affects movement patterns and microhabitat distribution in the hermit crabs *Calcinus elegans*, *C. laevimanus* and *C. latens*. *Journal of Experimental Marine Biology and Ecology*, 382(1): 27–33.
- Badyaev, A. V. (2002). Growing apart: an ontogenetic perspective on the evolution of sexual size dimorphism. *Trends in Ecology & Evolution*, 17(8): 369–378.
- Baeza, J. A., Furlan, M., Almeida, A. C., de Paiva Barros-Alves, S., Alves, D. F. and Fransozo, V. (2013). Population dynamics and reproductive traits of the ornamental crab *Porcellana sayana*: implications for fishery management and aquaculture. *Sexuality and Early Development in Aquatic Organisms*, 1(1): 1–12.
- Ballesteros, E. (1995). Comunidades algales en el Mediterráneo. *Aulas del mar, Acuicultura, Biología marina*, 99–115.
- Bandel, K. and Wedler, E. (1987). Hydroid, amphineuran and gastropod zonation in the littoral of the Caribbean Sea, Colombia. *Senckenbergiana maritima*, 19(1-2): 1–129.
- Barnes, D. K. (1997). Ecology of tropical hermit crabs at Quirimba Island, Mozambique: vertical migration (tree climbing). *Marine Ecology Progress Series*, 158: 233–240.
- Barnes, D. K. (1999). Ecology of tropical hermit crabs at Quirimba Island, Mozambique: shell characteristics and utilisation. *Marine Ecology Progress Series*, 183: 241–251.
- Barnes, D. K. (2002). Ecology of subtropical hermit crabs in SW Madagascar: refuge-use and dynamic niche overlap. *Marine Ecology Progress Series*, 238: 163–172.
- Barnes, D. K. A. (2005). Body and resource size at the land-sea interface. *Marine Biology*, 146(3): 625–632.

- Barnes, R. S. and Hughes, R. N. (1999). *An Introduction to Marine Ecology*. Blackwell Publishing Company, USA, pp. 286.
- Beck, B. B. (1980). *Animal Tool Behavior. The Use and Manufacture of Tools by Animals*. Garland STPM Press.
- Benedetti, C. L. (2001). Beyond BACI: optimization of environmental sampling designs through monitoring and simulation. *Ecological Applications*, 11(3): 783–799.
- Benetti, A. S., Negreiros-Fransozo, M. L. and Costa, T. M. (2007). Population and reproductive biology of *Uca burgersi* (Crustacea, Ocypodidae) in three subtropical mangrove forests. *Revista de Biología Tropical*, 55(1): 55–70.
- Bertini, G. and Fransozo, A. (1999). Spatial and seasonal distribution of *Petrochirus diogenes* (Anomura, Diogenidae) in the Ubatuba bay, São Paulo, Brazil. *Iheringia, Série Zoologia*, 86(1): 145–150.
- Bertini, G. and Fransozo, A. (2000). Population dynamics of *Petrochirus diogenes* (Crustacea, Anomura, Diogenidae) in the Ubatuba region, São Paulo, Brazil. *Biodiversity Crisis and Crustacea*, 331–342.
- Bertini, G. and Fransozo, A. (2002). Breeding season of the hermit crab *Petrochirus diogenes* (Anomura: Diogenidae) in the north coast of São Paulo State, Brazil. In: Escobar-Briones E. and Alvarez F. (eds) *Modern Approaches to the study of Crustacea*. Springer, Boston, MA, pp. 145–150.
- Bertness, M. D. (1980). Shell preference and utilization patterns in littoral hermit crabs of the Bay of Panama. *Journal of Experimental Marine Biology and Ecology*, 48(1): 1–16.
- Bertness, M. D. (1981a). Predation, physical stress, and the organization of a tropical rocky intertidal hermit crab community. *Ecology*, 62(2): 411–425.
- Bertness, M. D. (1981b). Conflicting advantages in resource utilization: the hermit crab housing dilemma. *The American Naturalist*, 118(3): 432–437.
- Bertness, M. D. (1981c). The influence of shell-type on hermit crab growth rate and clutch size (Decapoda, Anomura). *Crustaceana*, 197–205.

- Bertness, M. D. (1981d). Pattern and Plasticity in Tropical Hermit Crab Growth and Reproduction. *The American Naturalist*, 117(5): 754–773.
- Bertness, M. D. (1981e). Interference, exploitation, and sexual components of competition in a tropical hermit crab assemblage. *Journal of Experimental Marine Biology and Ecology*, 49(2-3): 189–202.
- Bertness, M. D. (1982). Shell utilization, predation pressure, and thermal stress in Panamanian hermit crabs: an interoceanic comparison. *Journal of Experimental Marine Biology and Ecology*, 64(2): 159–187.
- Bertness, M. D. and Cunningham, C. (1981). Crab shell-crushing predation and gastropod architectural defense. *Journal of Experimental Marine Biology and Ecology*, 50(2-3): 213–230.
- Biagi, R., Meireles, A. L., Scelzo, M. A. and Mantelatto, F. L. (2006). Comparative study of shell choice by the southern endemic hermit crab *Loxopagurus loxocheilis* from Brazil and Argentina. *Revista chilena de historia natural*, 79(4): 481–487.
- Biseswar, R. and Reddy, T. (1993). Patterns of shell utilization in two sympatric species of hermit crabs from the Natal coast (Decapoda, Anomura, Diogenidae). *Crustaceana*, 65(1): 13–24.
- Blackstone, N. W. (1985). The effects of shell size and shape on growth and form in the hermit crab *Pagurus longicarpus*. *The Biological Bulletin*, 168(1): 75–90.
- Blackstone, N. W. (1986). Variation of cheliped allometry in a hermit crab: the role of introduced periwinkle shells. *The Biological Bulletin*, 171(2): 379–390.
- Blackstone, N. W. (1987). Specific growth rates of parts in a hermit crab *Pagurus longicarpus*: a reductionist approach to the study of allometry. *Journal of Zoology*, 211(3): 531–545.
- Boltt, R. E. (1961). Antennary feeding of the hermit crab *Diogenes brevirostris* Stimpson. *Nature*, 192: 1099–1100.

- Bouchet, P. (2006). The magnitude of marine biodiversity. In: Duarte C. M. (ed) *The exploration of marine biodiversity: scientific and technological challenges*. Natural History Museum, Paris, France, pp. 31–64.
- Boxshall, G. and Hayes, P. (2019). Biodiversity and Taxonomy of the Parasitic Crustacea. *Parasitic Crustacea*, 3: 73–134.
- Boyko, C. B. and McLaughlin, P. A. (2010). Annotated checklist of anomuran decapod crustaceans of the world (exclusive of the Kiwaoidea and families Chirostyliidae and Galatheidae of the Galatheoidea) Part IV–Hippoidea. *The Raffles Bulletin of Zoology*, 23: 139–151.
- Bracken-Grissom, H. D., Cannon, M. E., Cabezas, P., Feldmann, R. M., Schweitzer, C. E., Ahyong, S. T., Felder, D. L., Lemaitre, R. and Crandall, K. A. (2013). A comprehensive and integrative reconstruction of evolutionary history for Anomura (Crustacea: Decapoda). *BMC Evolutionary Biology*, 13(1), 1–28.
- Branco, J. O., Turra, A. and Souto, F. X. (2002). Population biology and growth of the hermit crab *Dardanus insignis* at Armação do Itapocoroy, southern Brazil. *Journal of the Marine Biological Association of the United Kingdom*, 82(4): 597–603.
- Briffa, M. and Elwood, R. W. (2005). Metabolic consequences of shell choice in *Pagurus bernhardus*: do hermit crabs prefer cryptic or portable shells?. *Behavioral Ecology and Sociobiology*, 59(1): 143–148.
- Brown, A. C. and McLachlan, A. (2002). Sandy shore ecosystems and the threats facing them: some predictions for the year 2025. *Environmental Conservation*, 29(1): 62–77.
- Brown, J. H. (1984). On the relationship between abundance and distribution of species. *The American Naturalist*, 124(2): 255–279.
- Buss, L. W. and Jackson, J. B. C. (1979). Competitive networks: nontransitive competitive relationships in cryptic coral reef environments. *The American Naturalist*, 113(2): 223–234.

- Campbell, A. and Eagles, M. D. (1983). Size at maturity and fecundity of rock crabs, *Cancer irroratus*, from the Bay of Fundy and southwestern Nova Scotia. Fishery Bulletin, 81(2): 357–362.
- Carefoot, T. (1977). Pacific Seashores: A Guide to Intertidal Ecology. Journal of the Fisheries Research Board of Canada, 35(6): 930–931.
- Carlon, D. B. and Ebersole, J. P. (1995). Life-history variation among three temperate hermit crabs: the importance of size in reproductive strategies. The Biological Bulletin, 188(3): 329–337.
- Carothers, J. H. (1984). Sexual selection and sexual dimorphism in some herbivorous lizards. The American Naturalist, 124(2): 244–254.
- Caruso, T. and Chemello, R. (2009). The size and shape of shells used by hermit crabs: a multivariate analysis of *Clibanarius erythropus*. Acta Oecologica, 35: 349–354.
- Castiglioni, D. D. and Negreiros-Franozo, M. L. (2005). Comparative population biology of *Uca rapax* (Smith, 1870) (Brachyura, Ocypodidae) from two subtropical mangrove habitats on the Brazilian coast. Journal of Natural History, 1627–1640.
- Castiglioni, D. D. S. (2013). Population biology of *Ucides cordatus* (Linnaeus, 1763) (Crustacea, Brachyura, Ucididae) from two tropical mangroves sites in northeast coast of Brazil. Pan-American Journal of Aquatic Sciences, 8(2): 89–103.
- Castiglioni, D. D. S., Fransozo, M. L. N. and Mortari, R. C. (2006). Population biology of the violinist crab *Uca rapax* (Smith, 1870) (Crustacea, Ocypodoidea), from a degraded mangrove area in Paraty, RJ, Brazil. Atlântica, Rio Grande, 28(2): 73-86, 2006.
- Chablais, J., Feldmann, R. M. and Schweitzer, C. E. (2011). A new Triassic decapod, *Platykotta akaina*, from the Arabian shelf of the northern United Arab Emirates: earliest occurrence of the Anomura. Paläontologische Zeitschrift, 85(1): 93–102.

- Chase, I. D., Weissburg, M. and Dewitt, T. H. (1988). The vacancy chain process: a new mechanism of resource distribution in animals with application to hermit crabs. *Animal behaviour*, 36(5): 1265–1274.
- Childress, J. R. (1972). Behavioral ecology and fitness theory in a tropical hermit crab. *Ecology*, 53(5): 960–964.
- Cody, M. L. (1966). A general theory of clutch size. *Evolution*, 174–184.
- Colpo, K. D. and Negreiros-Fransozo, M. L. (2004). Comparison of the population structure of the fiddler crab *Uca vocator* (Herbst, 1804) from three subtropical mangrove forests. *Scientia Marina*, 68(1): 139–146.
- Conde, J. E. and Diaz, H. (1989). The mangrove tree crab *Aratus pisonii* in a tropical estuarine coastal lagoon. *Estuarine, Coastal and Shelf Science*, 28(6): 639–650.
- Connell, J. H. (1961). The influence of interspecific competition and other factors on the distribution of the barnacle *Chthamalus stellatus*. *Ecology*, 710–723.
- Connell, J. H. (1970). A predator-prey system in the marine intertidal region. I. *Balanus glandula* and several predatory species of Thais. *Ecological Monographs*, 40(1): 49–78.
- Connell, J. H. (1978). Diversity in tropical rain forests and coral reefs: high diversity of trees and corals is maintained only in a nonequilibrium state. *Science*, 199(4335): 1302–1310.
- Conover, M. R. (1978). The importance of various shell characteristics to the shell-selection behavior of hermit crabs. *Journal of Experimental Marine Biology and Ecology*, 32(2): 131–142.
- Copatti, C. E., Legramanti, R. P., Trevisan, A. and Santos, S. (2016). Growth, sexual maturity and sexual dimorphism of *Aegla georginae* (Decapoda: Anomura: Aeglidae) in a tributary of the Ibicuí River in southern Brazil. *Zoologia* (Curitiba), 33.

- Costa, T. and Soares-Gomes, A. (2009). Population structure and reproductive biology of *Uca rapax* (Decapoda: Ocypodidae) in a tropical coastal lagoon, southeast Brazil. *Zoologia (Curitiba)*, 26: 647–657.
- Costa, T. M. and Negreiros-Fransozo, M. L. (2003). Population biology of *Uca thayeri* Rathbun, 1900 (Brachyura, Ocypodidae) in a subtropical South American Mangrove area: results from transect and catch-per-unit-effort techniques. *Crustaceana*, 75(10): 1201–1218.
- Costa, T. M., Silva, A. A. J. and Negreiros-Fransozo, M. L. (2006). Reproductive pattern comparison of *U. thayeri* Rathbun, (1900) and *U. uruguayensis* Nobili, (1901) (Crustacea, Decapoda, Ocypodidae), *Brazilian Archives of Biology and Technology*, 49(1): 117–123.
- Côté, I. M., Reverdy, B. and Cooke, P. K. (1998). Less choosy or different preference? Impact of hypoxia on hermit crab shell assessment and selection. *Animal Behaviour*, 56(4): 867–873.
- Crane, J. (1975). *Fiddler crabs of the world, Ocypodidae: genus Uca*. Princeton University Press, Princeton, New Jersey, United States, pp. 736.
- Cranwell, L. and Moore, L. (1938). Intertidal Communities of the Poor Knights Islands, New Zealand. *Transactions and Proceedings of the Royal Society of New Zealand*, 67: 375–407.
- Creed, J. C. (2000). Epibiosis on cerith shells in a seagrass bed: correlation of shell occupant with epizoite distribution and abundance. *Marine Biology*, 137(5-6): 775–782.
- Darnell, R. M. (1962). Sex ratios. In: Altman P.L. and Dittmer D.S. (eds) *Aquatic animals*. Federation of American Societies for Experimental Biology. Washington, DC, pp. 439–442.
- Davenport, J. and Davenport, J. L. (2005). Effects of shore height, wave exposure and geographical distance on thermal niche width of intertidal fauna. *Marine Ecology Progress Series*, 292: 41–50.

- Dawson, E. W. (1989). King crabs of the world (Crustacea: Lithodidae) and their fisheries.—New Zealand Oceanographic Institute, New Zealand, pp. 316.
- Dayton, P. K. (1971). Competition, disturbance, and community organization: the provision and subsequent utilization of space in a rocky intertidal community. *Ecological Monographs*, 41(4): 351–389.
- De Arruda Leme, M. H. and Negreiros-Franozo, M. L. (1998). Reproductive patterns of *Aratus pisonii* (Decapoda: Grapsidae) from an estuarine area of São Paulo northern coast, Brazil. *Revista de Biología Tropical*, 46(3): 673–678.
- De Grave, S., Pentcheff, N.D., Ahyong, S.T., Chan, T.-Y., Crandall, K.A., Dworschak, P.C., Felder, D.L., Feldmann, R.M., Fransen, C.H.J.M., Goulding, L.Y.D., Lemaitre, R., Low, M.E.Y., Martin, J.W., Ng, P.K.L., Schweitzer, C.E., Tan, S.H., Tshudy, D. and Wetzer, R. (2009). A Classification of Living and Fossil Genera of Decapod Crustaceans. *Raffles Bulletin of Zoology*, 21: 1–109.
- Desai, A.Y. and Mansuri, A. P. (1989). Salinity and desiccation tolerance of hermit crab of Veraval, West coast of India. *Indian Journal of Current Biosciences*, 8: 129–132.
- Díaz, H. and Conde, J. E. (1989). Population dynamics and life history of the mangrove crab *Aratus pisonii* (Brachyura, Grapsidae) in a marine environment. *Bulletin of marine science*, 45(1): 148–163.
- Dineshbabu, A. P., Durgekar, N. R. and Zacharia, P. U. (2011). Estuarine and marine decapods of Karnataka inventory. *Fishing chimes*, 30(10 & 11): 20–24.
- Dominciano, L. C. and Mantelatto, F. L. (2004). The influence of shell species and size on the shell selection pattern of *Paguristes tortugae* (Decapoda, Diogenidae) from Anchieta Island (Ubatuba, Brazil). *Iheringia. Série Zoologia*, 94(4): 425–428.
- Dominciano, L. C. C., Sant'Anna, B. S. and Turra, A. (2009). Are the preference and selection patterns of hermit crabs for gastropod shells species-or site-

- specific?. Journal of Experimental Marine Biology and Ecology, 378(1-2): 15–21.
- Doty, M. S. (1957). Rocky Intertidal Surfaces. In: Hedgpeth, J. W. (ed.) *GSA Memoirs Treatise on Marine Ecology and Paleoecology*. Geological Society of America, United States. pp. 535–585.
- Dowds, B. M. and Elwood, R. W. (1983). Shell wars: assessment strategies and the timing of decisions in hermit crab shell fights. Behaviour, 85(1-2): 1–24.
- Drapkin, E. I. (1963). Effect of *Rapana bezoar* Linne (Mollusca, Muricidae) on the Black Sea fauna. Doklady Akademii Nauk SSSR, 151: 964–966.
- Ellis, D. V. (2003) Rocky shore intertidal zonation as a means of monitoring and assessing shoreline biodiversity recovery. Marine Pollution Bulletin 46: 305–307.
- Elwood, R. W. and Neil, S. J. (1992). *Assessments and decisions: A study of information gathering by hermit crabs* (Vol. 192). Springer Dordrecht, Chapman & Hall, London, UK. pp. 192.
- Elwood, R. W., Marks, N. and Dick, J. T. A. (1995). Consequences of shell-species preferences for female reproductive success in the hermit crab *Pagurus bernhardus*. Marine Biology, 123(3): 431–434.
- Elwood, R. W., McClean, A. N. N. E. and Webb, L. (1979). The development of shell preferences by the hermit crab *Pagurus bernhardus*. Animal Behaviour, 27: 940–946.
- Emmerson, W. D. (1994). Seasonal breeding cycles and sex ratios of eight species of crabs from Mgazana, a mangrove estuary in Transkei, southern Africa, Journal of Crustacean Biology, 14: 568–578.
- Fantucci, M. Z., Biagi, R. and Mantelatto, F. L. (2008). Shell occupation by the endemic western Atlantic hermit crab *Isocheles sawayai* (Diogenidae) from Caraguatatuba, Brazil. Brazilian Journal of Biology, 68(4): 859–867.

- Farias, A. C., Castiglioni, D. S. and Garcia, J. E. (2014). Population structure of the fiddler crab *Uca thayeri* Rathbun, 1900 (Crustacea, Decapoda, Ocypodidae) in a tropical mangrove. *Thalassas*, 30(1): 21-37.
- Floeter, S. R., Nalesto, R. C., Rodrigues, M. M. P. and Turra, A. (2000). Patterns of shell utilization and selection in two sympatric hermit crabs (Anomura: Diogenidae) in south-eastern Brazil. *Journal of Marine Biological Association of United Kingdom*, 80(6): 1053–1059.
- Flores, A. A. V. and Negreiros-Franozo, M. L. (1999). On the population biology of the mottled shore crab *Pachygrapsus transversus* (Gibbes, 1850) (Brachyura, Grapsidae) in a subtropical area. *Bulletin of Marine Science*, 65(1): 59–73.
- Flores, A. A. V. and Paula, J. (2002). Population dynamics of the shore crab *Pachygrapsus marmoratus* (Brachyura: Grapsidae) in the central Portuguese coast. *Journal of the Marine Biological Association of the United Kingdom*, 82(2): 229–241.
- Forest, J. (1953). Crustacés Décapodes Marcheurs des îles de Tahiti et des Tuamotu.—I. Paguridea. *Bulletin du Muséum national d'Histoire naturelle*, ser, 25(5): 441–450.
- Forest, J. (1987). Les Pylochelidae ou "Pagures symetriques" (Crustacea Coenobitoidea). *Memoires du Museum National d'Histoire Naturelle, Zoologie*, 137, 254.
- Fotheringham, N. (1975). Structure of seasonal migrations of the littoral hermit crab *Clibanarius vittatus* (Bosc). *Journal of Experimental Marine Biology and Ecology*, 18(1): 47–53.
- Fotheringham, N. (1976a). Population consequences of shell utilization by hermit crabs. *Ecology*, 57(3): 570–578.
- Fotheringham, N. (1976b). Hermit crab shells as a limiting resource (Decapoda, Paguridea). *Crustaceana*, 31(2): 193–199.

- Fotheringham, N. (1976c). Effects of shell stress on the growth of hermit crabs. *Journal of Experimental Marine Biology and Ecology*, 23(3): 299–305.
- Fotheringham, N. (1980). Effects of shell utilization on reproductive patterns in tropical hermit crabs. *Marine Biology*, 55(4): 287–293.
- Fransozo, A. and Mantelatto, F. L. M. (1998). Population structure and reproductive period of the tropical hermit crab *Calcinus tibicen* (Decapoda: Diogenidae) in the region of Ubatuba, São Paulo, Brazil. *Journal of Crustacean Biology*, 18(4): 738–745.
- Fransozo, A., Negreiros-Fransozo, M. L., Mantelatto, F. L. M., Pinheiro, M. A. A. and Santos, S. (1992). Composição e distribuição dos Brachyura (Crustacea, Decapoda) do sublitoral não consolidado na Enseada da Fortaleza, Ubatuba (SP). *Revista Brasileira de Biologia*, 52(4): 667–675.
- Gandolfi, S. M. (1996). *Padrão de utilização de conchas e aspectos da reprodução de Paguristes tortugae e Pagurus brevidactylus (Decapoda, Anomura) em costões do canal de São Sebastião, SP.* (M.Sc. Dissertation thesis) Instituto de Biociências, University of São Paulo, Brazil, pp. 69.
- Garcia, R. B. and Mantelatto, F. L. (2001). Shell selection by the tropical hermit crab *Calcinus tibicen* (Herbst, 1791) (Anomura, Diogenidae) from Southern Brazil. *Journal of Experimental Marine Biology and Ecology*, 265(1): 1–14.
- Garg, J. K., Singh, T. S. and Murthy, T. V. R. (1998). Wetlands of India Project Report: RSAM/SAC/ RESA/PR/01/98.239pp.
- Gause, G. F. (2019). *The Struggle for Existence: A Classic of Mathematical Biology and Ecology*. Dover Publications, Mineola, New York, United States USA, pp. 176.
- Genoni, G. P. (1985). Food limitation in salt marsh fiddler crabs *Uca rapax* (Smith) (Decapoda, Ocypodidae). *Journal of Experimental Marine Biology and Ecology*, 87: 97–110.
- Gherardi, F. (1990). Competition and coexistence in two Mediterranean hermit crabs, *Calcinus ornatus* (Roux) and *Clibanarius erythropus* (Latreille)

- (Decapoda, Anomura). Journal of Experimental Marine Biology and Ecology, 143(3): 221–238.
- Gherardi, F. (1991). Relative growth, population structure and shell utilization of the hermit crab *Clibanarius erythropus* in the Mediterranean. Oebalia, 17: 181–196.
- Gherardi, F. (1996). Non-conventional hermit crabs: pros and cons of a sessile, tube-dwelling life in *Discorsopagurus schmitti* (Stevens). Journal of experimental marine biology and ecology, 202(2): 119–136.
- Gherardi, F. and Cassidy, P. M. (1994). Sabellarian tubes as the housing of the hermit crab *Discorsopagurus schmitti*. Canadian Journal of Zoology, 72(3): 526–532.
- Gherardi, F. and Nardone, F. (1997). The question of coexistence in hermit crabs: population ecology of a tropical intertidal assemblage. Crustaceana, 70(5): 608–629.
- Gherardi, F., Zatteri, F. and Vannini, M. (1994). Hermit crabs in a mangrove swamp: the structure of *Clibanarius laevimanus* clusters. Marine Biology, 121(1): 41–52.
- Giangrande, A., Geraci, S. and Belmonte, G. (1994). Life cycle and life history diversity in marine invertebrates and the implications in community dynamics, In: A. D. Ansell, R. N. Gibson and M. Barnes (eds) *Oceanography and Marine Biology: An Annual Review*: 32. London: UCL Press, pp. 305–333.
- Giese, A. C. (1959). Comparative physiology: annual reproductive cycles of marine invertebrates. Annual review of physiology, 21(1): 547–576.
- Giesel, J. T. (1972). Sex ratio, rate of evolution, and environmental heterogeneity, American Naturalist, 106(949): 380–387.
- Gohil, B. and Kundu, R. (2013). Ecological status of *Cerithium caeruleum* at Dwarka coast, Gujarat, India. Indian Journal of Geo-Marine Sciences, 42(4): 481–486.

- Gonçalves, R. D. S., Castiglioni, D. D. S. and Bond-Buckup, G. (2006). Ecologia populacional de *Aegla franciscana* (Crustacea, Decapoda, Anomura) em São Francisco de Paula, RS, Brasil. *Iheringia. Série Zoologia*, 96: 109–114.
- Goodbody, I. (1965). Continuous breeding populations of two tropical crustaceans *Mysidium columbiae* (Zimmer) and *Ernerita portoricensis* Schmitt. *Ecology*, 46: 195–197
- Gosavi, S. S., Trivedi, J. N., Trivedi, D. J. and Vachhrajani, K. D. (2017). First record of *Leucisca squalina* MacLeay, (1838). (Decapoda: Leucosiidae) from Gujarat state, India. *Journal of Entomology and Zoology Studies*, 5(1): 400–402.
- Gosavi, S., Purohit, B., Mitra, S., Patel, K. J., Vachhrajani, K. D. and Trivedi, J. N. (2021). Annotated checklist of marine decapods (Crustacea: Decapoda) of Gujarat state with three new records. Proceedings of the “Marine Biology Research Symposium – MBRS 2021”, 45–66.
- Grant, Jr. W. C. and Ulmer, K. M. (1974). Shell selection and aggressive behavior in two sympatric species of hermit crabs. *The Biological Bulletin*, 146: 32–43.
- Gray, J. S. (2001). Marine diversity: the paradigms in patterns of species richness examined. *Scientia Marina*, 65(S2): 41–56.
- Greenaway, P. (2003). Terrestrial adaptations in the Anomura (Crustacea: Decapoda). *Memoirs of Museum Victoria*, 60(1): 13–26.
- Grinnell, J. (1917). The niche-relationships of the California Thrasher. *The Auk*, 34: 427–433.
- Groombridge, B. and Jenkins, M. D. (2000). Global biodiversity: earth's living resources in the 21st century. World Conservation Press, Cambridge, UK. pp. 254.
- Gutiérrez, J. L., Jones, C. G., Strayer, D. L. and Iribarne, O. O. (2003). Mollusks as ecosystem engineers: the role of shell production in aquatic habitats. *Oikos*, 101(1):79–90.

- Hahn, D. R. (1998). Hermit crab shell use patterns: response to previous shell experience and to water flow. *Journal of Experimental Marine Biology and Ecology*, 228(1): 35–51.
- Halpern, B. S. (2004). Habitat bottlenecks in stage-structured species: hermit crabs as a model system. *Marine Ecology Progress Series*, 276: 197–207.
- Hartnoll, R. G. (2006). Reproductive investment in Brachyura. *Hydrobiologia*, 557: 31–40.
- Hartnoll, R. G. and Gould, P. (1988). Brachyuran life history strategies and the optimization of egg production. In: Fincham A. A. and Rainbow P. S. (eds) *Aspects of Decapod Crustacean Biology: Symposia of the Zoological Society of London 59*. The Zoological Society of London, Clarendon Press, Oxford, UK, pp. 1–8.
- Harvey, A. W. (1990). Sexual differences in contemporary selection acting on size in the hermit crab *Clibanarius digueti*. *The American Naturalist*, 136(3): 292–304.
- Hazlett, B. A. (1966). Social behavior of the Paguridae and Diogenidae of Curacao. Studies on the Fauna of Curaçao and other Caribbean Islands, 23(1):1–143.
- Hazlett, B. A. (1970). Interspecific Fighting in Three Species of Brachyuran Crabs from Hawaii1). *Crustaceana*, 20(3): 308–314.
- Hazlett, B. A. (1974). Field observations on intersecific agonistic behavior in hermit crabs. *Crustaceana*, 26(2): 133–138.
- Hazlett, B. A. (1980). Communication and mutual resource exchange in North Florida hermit crabs. *Behavioral Ecology and Sociobiology*, 6(3): 177–184.
- Hazlett, B. A. (1981). The behavioral ecology of hermit crabs. *Annual Review of Ecology and Systematics*, 12(1): 1–22.
- Hazlett, B. A. (1983). Interspecific negotiations: Mutual gain in exchanges of a limiting resource. *Animal Behaviour*, 31(1): 160–163.

- Hazlett, B. A. (1988). Behavioural plasticity as an adaptation to a variable environment. In: *Behavioral Adaptation to Intertidal Life*. NATO ASI Series, vol 151. Springer, Boston, MA. pp. 317–332
- Hazlett, B. A. (1989). Mating success of male hermit crabs in shell generalist and shell specialist species. *Behavioral Ecology and Sociobiology*, 25(2): 119–128.
- Hazlett, B. A. (1992). The effect of past experience on the size of shells selected by hermit crabs. *Animal Behaviour*, 44: 203–205.
- Hazlett, B. A. and Baron, L. C. (1989). Influence of shells on mating behaviour in the hermit crab *Calcinus tibicen*. *Behavioral Ecology and Sociobiology*, 24: 369–376.
- Heller, C. (1865). Die Crustaceen. Reise der öesterreichischen Fregatte Novara um die Erde in den Jahren (1857–1859) untr den Befehlen des Commodore B. von Wüllertort-Urbair. Zoologischer Theil 2. Part 3. Kaiserlich Königliche Hof- und Staatsdruckerei, Wien, pp. 280.
- Henderson, J. R. (1893). A contribution to Indian carcinology. *Transactions of the Linnaean Society of London Zoology*, Series 2, 5, 325–458.
- Hendrickx, M. E. and Harvey, A. W. (1999). Checklist of anomuran crabs (Crustacea: Decapoda) from the eastern tropical Pacific. *Belgian Journal of Zoology*, 129(2): 363–389.
- Herreid, C. F. and Full, R. J. (1986). Energetics of hermit crabs during locomotion: the cost of carrying a shell. *Journal of Experimental Biology*, 120(1): 297–308.
- Hirose, G. L. and Negreiros-Franozo, M. L. (2008). Population biology of *Uca maracoani* Latreille (1802-1803) (Crustacea, Brachyura, Ocypodidae) on the south-eastern coast of Brazil, *Pan-American Journal of Aquatic Sciences*, 3(3): 373–383.
- Hirose, M., Osawa, M. and Hirose, E. (2010). DNA barcoding of hermit crabs of genus *Clibanarius* Dana, (1852). (Anomura: Diogenidae) in the Ryukyu Islands, southwestern Japan. *Zootaxa*, 2414(1): 59–66.

Honeyborne, J. and Brownlow, M. (2017). *Blue planet II. A New World of Hidden Depths*. Penguin Random House, Ebury Publishing, London, UK. pp. 418.

Hutchinson, G. E. (1957). Concluding remarks cold spring harbor symposia on quantitative biology, 22: 415–427.

Imazu, M. and Asakura, A. (1994). Distribution, reproduction and shell utilization patterns in three species of intertidal hermit crabs on a rocky shore on the Pacific coast of Japan. Journal of Experimental Marine Biology and Ecology, 184(1): 41–65.

Ismail, T. G. E. K. (2010). Distribution and shell selection by two hermit crabs in different habitats on Egyptian Red Sea Coast. Acta Oecologica, 36(3): 314–324.

Janicke, T. and Fromonteil, S. (2021). Sexual selection and sexual size dimorphism in animals. Biology Letters, 17(9): 1–6.

Janzen, D. H. (1970). Herbivores and the number of tree species in tropical forests. The American Naturalist, 104(940): 501–528.

Jensen, G. and Sato, M. (2005). Shell selection by the hermit crab, *Pagurus hirtae* (McLaughlin & Jensen, 1996) (Decapoda, Anomura). Crustaceana, 78(6): 755–760.

Jensen, J. P. (1958). The relation between body size and number of eggs in marine malacostrakes. Meddr. Danm. Fiskog Havunders, 2: 1–25.

Johnson, D. S. and Skutch, A. F. (1928). Littoral vegetation on a headland of Mt. Desert Island, Maine. II. Tide-pools and the environment and classification of submersible plant communities. Ecology, 9(3): 307–338.

Johnson, D. S. and York, H. H. (1915). *The relation of plants to tide-levels: a study of factors affecting the distribution of marine plants*. Carnegie institution of Washington, Washington, DC, United States, pp. 162

Johnson, P. T. J. (2003). Biased sex ratios in fiddler crabs (Brachyura, Ocypodidae): a review and evaluation of the influence of sampling method, size class and sex-specific mortality, Crustaceana, 76: 559–580.

- Johnson, R. W. and Ebersole, J. P. (1989). Seasonality in the reproduction of the hermit crab *Pagurus longicarpus* Say, (1817) (Decapoda, Paguridea). *Crustaceana*, 57(3): 311–313.
- Jones, C. G., Lawton, J. H. and Shachak, M. (1994). Organisms as ecosystem engineers. *Ecosystem Management*. *Oikos*, 69(3): 373–386.
- Jones, C. G., Lawton, J. H. and Shachak, M. (1997). Positive and negative effects of organisms as physical ecosystem engineers. *Ecology*, 78(7): 1946–1957.
- Kachhiya, P., Raval, J., Poriya, P. and Kundu, R. (2017). Diversity and new records of intertidal hermit crabs of the genus *Clibanarius* (Crustacea: Decapoda: Diogenidae) from Gujarat coast off the northern Arabian Sea, with two new records for the mainland Indian coastline. *Journal of Threatened Taxa*, 9(6): 10334–10339.
- Kamalaveni, S. (1950). On hermit-crabs (Family Paguridae) in the collection of the Indian Museum. *Records of the Indian Museum*, 47: 77–85.
- Kellogg, C. W. (1976). Gastropod shells: a potentially limiting resource for hermit crabs. *Journal of experimental marine Biology and Ecology*, 22(1): 101–111.
- Kellogg, C. W. (1977). Coexistence in a hermit crab species ensemble. *The Biological Bulletin*, 153(1): 133–144.
- Kemp, S. (1915). Fauna of the Chilka Lake No 3. Crustacea Decapoda. *Memoirs of the Indian Museum*, 5: 199–325.
- Khan, S. A. and Natarajan, R. (1981). Metamorphosis of an estuarine hermit crab *Clibanarius olivaceus* Henderson in the laboratory (Crustacea: Decapoda: Anomura). *Mahasagar*, 14(4): 265–276.
- Kikuchi, T. (1962). An ecological study on animal community of Zostera belt in Tomioka Bay, Amakusa, Kyushu (II). Community composition (2). Decapod crustaceans. *Records of Oceanographic Works in Japan*, 6: 135–146.
- Komai, T., Reshma, R. and Bijukumar, A. (2013a). A new species of the hermit crab genus *Diogenes* (Crustacea: Decapoda: Anomura: Diogenidae) from southern India. *Zootaxa*, 3613: 380–390.

Komai, T., Reshma, R. and Bijukumar, A. (2013b). Rediscovery and range extension of *Ciliopagurus liui* Forest, 1995 and description of a new species of *Pagurus fabricius*, (1775). (Crustacea: Decapoda: Anomura: Paguroidea) from the Kerala State, southwestern India. Zootaxa, 3710: 467–484.

Komai, T., Reshma, R. and Kumar, A. B. (2012). A new species of the hermit crab genus *Iliopagurus* Forest (Crustacea: Decapoda: Anomura: Diogenidae) from Southern India. Zootaxa, 3266: 53–61.

Komai, T., Reshma, R. and Kumar, A. B. (2015). A new species of the hermit crab genus *Paguristes* Dana, (1851). (Crustacea: Decapoda: Anomura: Diogenidae) from Southwestern India. Zootaxa, 3937(3): 517–532.

Kruesi, K., Burciaga, L. M. and Alcaraz, G. (2022). Coexistence of similar species: evidence of a resource and microhabitat sharing in two intertidal hermit crab species. Hydrobiologia, 849(6): 1531–1541.

Laidre, M. E. (2011). Ecological relations between hermit crabs and their shell-supplying gastropods: constrained consumers. Journal of Experimental Marine Biology and Ecology, 397(1): 65–70.

Lancaster, I. (1988a). *Pagurus bernhardus* (L.)—an introduction to the natural history of hermit crabs. Field Studies, 7: 189–238.

Lancaster, I. (1988b). *Optimisation in the life history of the hermit crab Pagurus bernhardus (L.)*. PhD Thesis, The University of Plymouth, Plymouth, United Kingdom. pp. 192

Lancaster, I. (1990). Reproduction and life history strategy of the hermit crab *Pagurus bernhardus*. Journal of the Marine Biological Association of the United Kingdom, 70(1): 129–142.

Lalli, C. M. and Parsons, T. R. (2012). *Biological oceanography: an introduction*. Elsevier Butterworth-Heinemann, Massachusetts, United States. pp. 314.

Lardies, M. A., Rojas, J. R. and Wehrtmann, I. S. (1998). Breeding biology of the snapping shrimp *Betaeus emarginatus* inhabiting a rock pool environment in

- central-southern Chile (Decapoda: Caridea: Alpheidae). *Ophelia*, 49(3): 221–231.
- Leite, F. P. P., Turra, A. and Gandolfi S. M. (1998). Hermit crabs (Crustacea: Decapoda: Anomura), gastropod shells and environmental structure: their relationship in southeastern Brazil. *Journal of Natural History*, 32: 1599–1608.
- Lemaitre, R. (1995). A review of hermit crabs of the genus *Xylopagurus* A. Milne Edwards, 1880 (Crustacea: Decapoda: Paguridae), with description of two new species. *Smithsonian Contributions to Zoology*, 570: 1–27.
- Lemaitre, R. and McLaughlin, P. A. (2009). Recent advances and conflicts in concepts of anomuran phylogeny (Crustacea: Malacostraca). *Arthropod Systematics & Phylogeny*, 67(2): 119–135.
- Levinton, J. S. (2021). *Marine Biology: Function, Biodiversity, Ecology*. Oxford University Press. Oxford, United Kingdom, pp. 608.
- Lewis, J. R. (1964). *The ecology of rocky shores*. English Universities Press Ltd., London, United Kingdom, pp. 323.
- Litulo, C. (2004). Fecundity and breeding biology of the hermit crab *Diogenes brevirostris* (Stimpson, 1858) (Anomura: Diogenidae) from southern Mozambique. *Invertebrate reproduction & development*, 46(1): 41–46.
- Litulo, C. (2005a). Population structure and reproduction of the hermit crab *Dardanus deformis* (Anomura: Diogenidae) in the Indian Ocean. *Journal of the Marine Biological Association of the United Kingdom*, 85(4): 883–887.
- Litulo, C. (2005b). Population biology and fecundity of the Indo-Pacific hermit crab *Clibanarius longitarsus* (Anomura: Diogenidae). *Journal of the Marine Biological Association of the United Kingdom*, 85(1): 121–125.
- Litulo, C. (2005c). Population structure and reproductive biology of the fiddler crab *Uca urvillei* (Brachyura: Ocypodidae) in Maputo Bay (south Mozambique). *Journal of Natural History*, 39(25): 2307–2318.

- Litulo, C. (2006). Population and reproductive biology of the fiddler crab *Uca chlorophthalmus* (Brachyura: Ocypodidae) from Inhaca Island, southern Mozambique, Journal of Marine Biological Association of United Kingdom, 86: 737–742.
- Litulo, C. (2007). Distribution, abundance and reproduction of the Indo-Pacific acorn barnacle *Balanus amphitrite* (Crustacea: Cirripedia). Journal of the Marine Biological Association of the United Kingdom, 87(3): 723–727.
- Lively, C. M. (1988). A graphical model for shell-species selection by hermit crabs. *Ecology*, 69(4): 1233–1238.
- Llodra, E. R. (2002). Fecundity and life-history strategies in marine invertebrates. *Advances in Marine Biology*, 87–170.
- Lovrich, G. A. (1997). The mixed fishery for the king crabs *Lithodes santolla* and *Paralomis granulosa* (Anomura: Lithodidae) in Tierra del Fuego, Argentina. *Investigaciones marinas*, 25: 41–57.
- Lowery, W. A. and Nelson, W. G. (1988). Population ecology of the hermit crab *Clibanarius vittatus* (Decapoda: Diogenidae) at Sebastian Inlet, Florida. *Journal of Crustacean Biology*, 8(4): 548–556.
- MacArthur, R. H. (1958). Population ecology of some warblers of northeastern coniferous forests. *Ecology*, 39: 599–619.
- Macpherson, E. and Raventós, N. (2004). Population structure and reproduction of three sympatric species of hermit crabs in the north-western Mediterranean. *Journal of the Marine Biological Association of the United Kingdom*, 84(2): 371–376.
- Macpherson, E. and Segonzac, M. (2005). Species of the genus *Munidopsis* (Crustacea, Decapoda, Galatheidae) from the deep Atlantic Ocean, including cold-seep and hydrothermal vent areas. *Zootaxa*, 1095(3): 1–60.
- Malay, M. C. M. D., Rahayu, D. L. and Chan, T. Y. (2018). Hermit crabs of the genera *Calcinus* Dana, *Clibanarius* Dana, and *Dardanus* Paul'son from the Panglao (2004) Expedition, with description of a new species and a checklist

- of the hermit crabs of the Philippines (Crustacea: Anomura: Paguroidea). *Raffles Bulletin of Zoology*, 66: 23–65.
- Manjón-Cabeza, M. E. and García Raso, J. E. (1995). Study of *Calcinus tubularis* (Crustacea, Diogenidae) from a shallow *Posidonia oceanica* meadow. *Cahiers de Biologie Marine*, 36: 277– 284.
- Manjón-Cabeza, M. E. and García-Raso, J. E. (1998). Population structure and growth of the hermit crab *Diogenes pugilator* (Decapoda: Anomura: Diogenidae) from the northeastern Atlantic. *Journal of Crustacean Biology*, 18(4): 753–762.
- Manjón-Cabeza, M. E. and García-Raso, J. E. (1999). Shell utilization by the hermit crabs *Diogenes pugilator* (Roux, 1829), *Paguristes eremita* (Linnaeus, 1767) and *Pagurus forbesii* Bell, (1845) (Crustacea: Decapoda: Anomura), in a shallow-water community from Southern Spain. *Bulletin of Marine Science*, 65(2): 391–405.
- Manjulatha, C. and Babu, D. E. (1991). Functional organisation of mouth parts, and filter feeding, in *Clibanarius longitarsus* (Crustacea: Anomura). *Marine Biology*, 109(1): 121–127.
- Mantelatto, F. L. and de Meireles, A. L. (2004). The importance of shell occupation and shell availability in the hermit crab *Pagurus brevidactylus* (Stimpson, 1859) (Paguridae) population from the southern Atlantic. *Bulletin of Marine Science*, 75(1): 27–35.
- Mantelatto, F. L. and Domiciano, L. C. C. (2002). Pattern of shell utilization by the hermit crab *Paguristes tortugae* (Diogenidae) from Anchieta Island, southern Brazil. *Scientia Marina*, 66(3): 265–272.
- Mantelatto, F. L. and Sousa, L. M. (2000). Population biology of the hermit crab *Paguristes tortugae* Schmitt, 1933 (Anomura, Diogenidae) from Anchieta island, Ubatuba, Brazil. *Nauplius*, 8(2): 185–193.
- Mantelatto, F. L. M. and Fransozo, A. (1999). Reproductive biology and moulting cycle of the crab *Callinectes ornatus* (Decapoda, Portunidae) from the Ubatuba region, São Paulo, Brazil. *Crustaceana*, 72(1): 63–76.

- Mantelatto, F. L. M. and Garcia, R. B. (1999). Reproductive potential of the hermit crab *Calcinus tibicen* (Anomura) from Ubatuba, São Paulo, Brazil. *Journal of Crustacean Biology*, 19(2): 268–275.
- Mantelatto, F. L. M. and Garcia, R. B. (2000). Shell utilization pattern of the hermit crab *Calcinus tibicen* (Diogenidae) from southern Brazil. *Journal of Crustacean Biology*, 20: 460–467.
- Mantelatto, F. L. M. and Martinelli, J. M. (2001). Relative growth and sexual dimorphism of the South Atlantic hermit crab *Loxopagurus loxochelis* (Anomura, Diogenidae) from Ubatuba, Brazil. *Journal of Natural History*, 35(3): 429–437.
- Mantelatto, F. L., Alarcon, V. F. and Garcia, R. B. (2002). Egg production strategies of the tropical hermit crab *Paguristes tortugae* from Brazil. *Journal of Crustacean Biology*, 22(2): 390–397.
- Mantelatto, F. L., Biagi, R., Meireles, A. L. and Scelzo, M. A. (2007). Shell preference of the hermit crab *Pagurus exilis* (Anomura: Paguridae) from Brazil and Argentina: a comparative study. *Revista de Biología Tropical*, 55: 153–161.
- Mantelatto, F. L., Fernandes-Góes, L. C., Fantucci, M. Z., Biagi, R., Pardo, L. M. and de Goes, J. M. (2010). A comparative study of population traits between two South American populations of the striped-legged hermit crab *Clibanarius vittatus*. *Acta Oecologica*, 36(1): 10–15.
- Markham, J. C. (1968). Notes on growth-patterns and shell-utilization of the hermit crab *Pagurus bernhardus* (L.). *Ophelia*, 5(2): 189–205.
- Martin, J. W. and Davis, G. E. (2001). *An updated classification of the recent Crustacea*. Natural History Museum of Los Angeles County., Science series, California, United States. pp. 124.
- Martinelli, J. M., Mantelatto, F. L. and Fransozo, A. (2002). Population structure and breeding season of the south Atlantic hermit crab, *Loxopagurus loxochelis* (Anomura, Diogenidae) from the Ubatuba region, Brazil. *Crustaceana-International Journal of Crustacean Research*, 75(6): 791–802.

- Mayo, B. S. (1973). A review of the genus *Cancellus* (Crustacea: Diogenidae), with the description of a new species from the Caribbean Sea. Smithsonian Contributions to Zoology, 150: 73–296.
- McClintock, T. S. (1985). Effects of shell condition and size upon the shell choice behavior of a hermit crab. Journal of Experimental Marine Biology and Ecology, 88(3): 271–285.
- McIntyre, A. (2010). *Life in the world's oceans: Diversity, distribution, and abundance*. Wiley-Blackwell, Chichester, England, pp. 363.
- McLaughlin, P. A. and Lemaitre, R. (1993). A review of the hermit crab genus *Paguritta* (Decapoda: Anomura: Paguridae) with descriptions of three new species. Raffles Bulletin of Zoology, 41(1): 1–29.
- McLaughlin, P. A. and Lemaitre, R. (1997). Carcinization in the Anomura-fact of fiction? I. Evidence from adult morphology. Contributions to Zoology, Amsterdam, 67(2): 79–123.
- McLaughlin, P. A. and Lemaitre, R. (2009). A new classification for the Pylochelidae (Decapoda: Anomura: Paguroidea) and descriptions of new taxa. Raffles Bulletin of Zoology, 20: 159–231.
- McLaughlin, P. A. and Murray, T. (1990). *Clibanarius fonticola*, new species (Anomura: Paguridea: Diogenidae), from a fresh-water pool on Espiritu Santo, Vanuatu. Journal of Crustacean Biology, 10(4): 695–702.
- McLaughlin, P. A., Komai, T., Lemaitre, R. and Rahayu, D. L. (2010). Annotated checklist of anomuran decapod crustaceans of the world (exclusive of the Kiwaoidea and families Chirostylidae and Galatheidae of the Galatheoidea) Part I-Lithodoidea, Lomisoidea and Paguroidea. The Raffles Bulletin of Zoology, 23(5): 1–107.
- McLaughlin, P. A., Lemaitre, R. and Sorhannus, U. (2007). Hermit crab phylogeny: a reappraisal and its “fall-out”. Journal of Crustacean Biology, 27(1): 97–115.

- Meireles, A. D. L. and Mantelatto, F. L. (2005). Shell use by the *Pagurus brevidactylus* (Anomura, Paguridae): a comparison between laboratory and field conditions. *Dong wu xue bao. Acta Zoologica Sinica*, 51(5): 813–820.
- Meireles, A. L., Biagi, R. and Mantelatto, F. L. (2008). Influence of prior experience on shell selection by the white spotwrist hermit crab *Pagurus criniticornis* (Crustacea: Paguridae). *Hydrobiologia*, 605(1): 259–263.
- Menge, B. A. (1976). Organization of the New England rocky intertidal community: role of predation, competition, and environmental heterogeneity. *Ecological monographs*, 46(4): 355–393.
- Meusy, J. J. and Payen, G. G. (1988). Female reproduction in malacostracan Crustacea. *Zoological Science*, 5(2): 217–265.
- Mishima, S. and Henmi, Y. (2008). Reproduction and embryonic diapause in the hermit crab *Pagurus nigrofascia*. *Crustacean Research*, 37: 26–34.
- Mitchell, K. A. (1975). An analysis of shell occupation by two sympatric species of hermit crabs. I. Ecological factors. *Biological Bulletin*, 149: 205–213.
- Miyake, S. (1956). Invertebrate fauna of the intertidal zone of the Tokara Islands, XIII Anomura. *Journal of the Faculty of Agriculture, Kyushu University*, 3: 303–337.
- Montague, C. L. (1980). A natural history of temperate western Atlantic fiddler crabs (genus *Uca*) with reference to their impact on the salt marsh. *Contributions of Marine Science*, 23: 2–55.
- Moradmand, M. and Sari, A. (2007). New record of the hermit crab *Pagurus kulkarnii* Sankolli, 1961 (Anomura: Paguridae) from the Gulf of Oman, Iran. *Zoology in the Middle East*, 42(1): 112–114.
- Murata, K., Watanabe, S. and Takagi, K. (1988). Home shell selection in an intertidal hermit crab, *Clibanarius virescens* on the Pacific coast of Boso Peninsula, Chiba Prefecture. *La Mer, Bulletin de la Societe franco-japonaise d'oceanographie*, 26: 29–35.

- Nayak, V. N. and Neelakantan, B. (1985). *Diogenes maclaughlinae* (Crustacea: Decapoda: Anomura) a new species of hermit crab from Karwar Area with a description of first zoeal stage. *The Indian Zoologist*, 9(1&2): 15–21
- Nayak, V. N. and Neelakantan, B. (1989). A new species of hermit crab, *Diogenes karwarensis* (Decapoda: Anomura) from the west coast of India. *Journal of the Bombay Natural History Society*, 86(1): 71–77.
- Negreiros-Fransozo, M. L. and A. Fransozo. (1992). Estrutura populacional e relaÃ§Ã£o com a concha em *Paguristes tortugae* Schmitt, (1933). (Decapoda, Diogenidae), no litoral norte do Estado de Sao Paulo, Brasil. *Naturalia*, 17: 31–42.
- Negreiros-Fransozo, M. L., Mantelatto, F. L. and Fransozo, A. (1999). Population biology of *Callinectes ornatus* Ordway, 1863 (Decapoda, Portunidae) from Ubatuba (SP), Brazil. *Scientia Marina*, 63(2): 157–163.
- Newell, R. C. (1979). *Biology of Intertidal Animals*. Marine Ecological Surveys Ltd., Faversham, Kent, United Kingdom. pp. 781
- Ng, P. K., Trivedi, J. N. and Vachhrajani, K. D. (2015). *Dentoxanthus iranicus* Stephensen, (1946) (Crustacea: Brachyura: Galenidae): a new record from Gujarat, India, with systematic notes. *Marine Biodiversity Records*, 8: 1–5.
- Nugroho, L. A., Piranti, A. S. and Sastranegara, M. H. (2020). Plankton community and water quality during maximum tidal range in Segara Anakan Cilacap. In IOP Conference Series: Earth and Environmental Science, 593(1): 1–14.
- Nyblade, C. F. (1974). *Coexistence in sympatric hermit crabs*. Ph. D. dissertation, University of Washington, Seattle. Washington, United States.
- Nyblade, C. F. (1987). Phylum or subphylum crustacea, class Malacostraca, order Decapoda, Anomura. Reproduction and Development of Marine Invertebrates of the Northern Pacific Coast: Data and Methods for the Study of Egg, Embryo, 441–450.

- Ohmori, H., Wada, S., Goshima, S. and Nakao, S. (1995). Effects of body size and shell availability on the shell utilization pattern of the hermit crab *Pagurus filholi* (Anomura: Paguridae). *Crustacean Research*, 24: 85–92.
- Oliveira, E. and Masunari, S. (1995). Estrutura populacional de *Petrolisthes armatus* (Gibbes) (Decapoda, Anomura, Porcellanidae) da Ilha do Farol, Matinhos, Paraná, Brasil. *Revista Brasileira de Zoologia*, 12: 355–371.
- Orians, G. H. and King, C. E. (1964). Shell selection and invasion rates of some Pacific hermit crabs. *Pacific Science*, 18: 297–306.
- Orton, J. H. (1920). Sea-temperature, breeding and distribution in marine animals. *Journal of the Marine Biological Association of the United Kingdom*, 12(2): 339–366.
- Osawa, M. and McLaughlin, P. A. (2010). Annotated checklist of anomuran decapod crustaceans of the world (exclusive of the Kiwaoidea and families Chirostylidae and Galatheidae of the Galatheoidea) Part II—Porcellanidae. *The Raffles Bulletin of Zoology*, 23: 109–129.
- Osawa, M. and Yoshida, R. (2009). Two estuarine hermit crab species of the genus *Clibanarius* (Crustacea: Decapoda: Diogenidae) from the Ryukyu Islands, southern Japan. *Species Diversity*, 14(4): 267–278.
- Osorno, J. L., Fernández-Casillas, L. and Rodríguez-Juárez, C. (1998). Are hermit crabs looking for light and large shells?: evidence from natural and field induced shell exchanges. *Journal of Experimental Marine Biology and Ecology*, 222(1-2): 163–173.
- Paine, R. T. (1966). Food web complexity and species diversity. *The American Naturalist*, 100(910): 65–75.
- Palumbi, S., Evans, T., Pespeni, M. and Somero, G. (2019). Present and Future Adaptation of Marine Species Assemblages: DNA-Based Insights into Climate Change from Studies of Physiology, Genomics, and Evolution. *Oceanography*, 32(3): 82–93.

- Partridge, B. L. (1980). Background camouflage: an additional parameter in hermit crab shell selection and subsequent behavior. *Bulletin of Marine Science*, 30(4): 914–916.
- Passano, L. M. (1960). Molting and its control. In: Waterman T.H. (ed) *The physiology of Crustacea*, Academic Press, New York, 1: 473–536.
- Patel, P., Patel, K. and Trivedi, J. (2020a). First record of Hermit crab *Clibanarius ransonni* Forest, (1953) (Crustacea: Anomura: Diogenidae) from India. *Journal of Biological Studies*, 3(1): 19–23.
- Patel, D., Patel, K. J., Patel, P. R. and Trivedi, J. N. (2020b). Shell utilization pattern by the hermit crab *Diogenes custos* (Fabricius, 1798) along Gulf of Kachchh, Gujarat, India. *Journal of Biological Studies*, 3(2): 79–95.
- Patel, P. R., Patel, K. J., Vachhrajani, K. D. and Trivedi, J. N. (2020c). Shell utilization pattern of the Hermit crab *Clibanarius rhabdodactylus* Forest, (1953) on rocky shores of the Saurashtra coast, Gujarat State, India. *Journal of Animal Diversity*, 2(4): 33–43.
- Patel, K. J., Patel, P. R. and Trivedi, J. N. (2021). Gastropod Shell Utilization Pattern of *Clibanarius ransonni* Forest, (1953) in the Rocky Intertidal Zone of Saurashtra Coast, Gujarat state, India. Proceedings of the “Marine Biology Research Symposium – MBRS 2021”, 1–11.
- Patel, K. J., Vachhrajani, K. D. and Trivedi, J. N. (2022b). Study on Shell Utilization Pattern of Two Sympatric Hermit Crab Species on the Rocky Intertidal Region of Veraval, Gujarat, India. *Thalassas: An International Journal of Marine Sciences*, 1–13.
- Patel, K., Padate, V., Osawa, M., Tiwari, S., Vachhrajani, K. and Trivedi, J. (2022a). An annotated checklist of anomuran species (Crustacea: Decapoda) of India. *Zootaxa*, 5157(1): 1–100.
- Pechenik, J. A., Hsieh, J., Owara, S., Wong, P., Marshall, D., Untersee, S. and Li, W. (2001). Factors selecting for avoidance of drilled shells by the hermit crab *Pagurus longicarpus*. *Journal of Experimental Marine Biology and Ecology*, 262(1): 75–89.

- Pessani, D., Damiano, M. T., Maiorana, G. and Tirelli, S. (2000). The biology of the hermit crab *Calcinus tubularis* (Decapoda, Diogenidae) in nature and in the laboratory. In: Frederick R. S., Klein J. C. V. V (eds), *The Biodiversity Crisis and Crustacea-Proceedings of the Fourth International Crustacean Congress*, CRC Press, Taylor & Francis, United Kingdom, pp. 377.
- Pillay, K. K. and Ono, Y. (1978). The breeding cycles of two species of grapsid crabs (Crustacea: Decapoda) from the North coast of Kyushu, Japan, *Marine Biology*, 45: 273–248.
- Pinheiro, M. A. A. and Fransozo, A. (2002). Reproduction of the speckled swimming crab *Arenaeus cibrarius* (Brachyura: Portunidae) on the Brazilian coast near 23°30' S. *Journal of Crustacean Biology*, 22(2): 416–428.
- Pinheiro, M. A. and Fransozo, A. (1995). Fecundity of *Pachycheles haigae* Rodrigues da Costa, 1960 (Crustacea, Anomura, Porcellanidae) in Ubatuba (SP), Brazil. *Revista Brasileira de Biologia*, 55(4): 623–631.
- Pope, E. C. (1953). Stones that walk. *Australian Museum Magazine*, 11: 44–46.
- Poore, G. C. (2004). *Marine decapod Crustacea of southern Australia: A guide to identification*. CSIRO publishing, Clayton, Australia. pp. 616.
- Porter, M. L., Perez-Losada, M. and Crandall, K. A. (2005). Model-based multi-locus estimation of decapod phylogeny and divergence times. *Molecular Phylogenetics and Evolution*, 37: 355–369.
- Poupin, J., Bouchard, J. M., Dinhut, V., Cleva, R. and Dumas, J. (2013). Anomura (Crustacea Decapoda) from the Mayotte region, western Indian Ocean. *Atoll Research Bulletin*, 593: 1–73.
- Prettereiner, K., Riedel, B., Zuschin, M. and Stachowitsch, M. (2012). Hermit crabs and their symbionts: Reactions to artificially induced anoxia on a sublittoral sediment bottom. *Journal of experimental marine biology and ecology*, 411: 23–33.
- Provenzano Jr, A. J. (1960). Notes on Bermuda hermit crabs (Crustacea; Anomura). *Bulletin of Marine Science*, 10(1): 117–124.

- Radhakrishnan, E. V., Deshmukh, V. D., Maheswarudu, G., Josileen, J., Dineshbabu, A. P., Philipose, K. K. and Dash, G. (2012). Prawn fauna (Crustacea: Decapoda) of India-an annotated checklist of the Penaeoid, Sergestoid, Stenopodid and Caridean prawns. *Journal of the Marine Biological Association of India*, 54(1): 50–72.
- Rahayu, D. L., Wahyudi, A. J. and Susetiono, S. Y. (2008). *Common littoral hermit crabs of Indonesia*. Kyoto University Press, Kyoto, Japan. pp. 93.
- Ramesh, S., Sankar, S. S. and Elangomathavan, R. (2009). Habitat Diversity of Hermit Crab *Clibanarius longitarsus* (De Haan) In Vellar Estuary, Southeast Coast of India. *Recent Research in Science and Technology*, 1(4): 161–168.
- Randall, J. E. (1964). Contribution to the biology of the queen conch, *Strombus gigas*. *Bulletin of Marine Science of the Gulf and Caribbean*, 14: 246–295.
- Rao, G. S. and Rama-Sharma, D. V. (1990). Meiobenthos of the Gosthani estuary. *Indian Journal of Marine Sciences*, 19: 171–173.
- Reaka-Kudla, M. L. (1997). The global biodiversity of coral reefs: A comparison with rainforests. In: Reaka-Kudla, M. L., D. E. Wilson, and E. O. Wilson (eds.), *Biodiversity II: Understanding and Protecting Our Natural Resources*, pp. 83–108.
- Rebach, S. (1974). Burying behavior in relation to substrate and temperature in the hermit crab, *Pagurus longicarpus*. *Ecology*, 55(1): 195–198.
- Rebach, S. (1978). The role of celestial cues in short range migrations of the hermit crab, *Pagurus longicarpus*. *Animal Behaviour*, 26: 835–842.
- Rebach, S. (1981). Use of multiple cues in short-range migrations of Crustacea. *American Midland Naturalist*, 168–180.
- Reddy, T. and Biseswar, R. (1993). Patterns of shell utilization in two sympatric species of hermit crabs from the Natal Coast (Decapoda, Anomura, Diogenidae). *Crustaceana*, 65: 13–24.
- Reese, E. S. (1968). Shell use: an adaptation for emigration from the sea by the coconut crab. *Science*, 161(3839): 385–386.

Reese, E. S. (1969). Behavioral adaptations of intertidal hermit crabs. *American Zoologist*, 9(2): 343–355.

Reese, E. S. (1962). Submissive posture as an adaptation to aggressive behavior in hermit crabs. *Zeitschrift für Tierpsychologie*, 19(6): 645–651.

Reid, D. M. and Corey, S. (1991). Comparative fecundity of decapod crustaceans, III. The fecundity of fifty-three species of Decapoda from tropical, subtropical, and boreal waters. *Crustaceana*, 61(3): 308–316.

Reiss, H., Knäuper, S. and Kröncke, I. (2003). Invertebrate associations with gastropod shells inhabited by *Pagurus bernhardus* (Paguridae) secondary hard substrate increasing biodiversity in North Sea soft-bottom communities. *Sarsia*, 88(6): 404–415.

Reshma, R. (2014). *Taxonomy and diversity of anomuran crabs (Decapoda: Anomura) of Kerala coast. Ph. D. dissertation*, University of Kerala, India

Reshma, R. and Bijukumar, A. (2010). First report of the hermit crabs *Coenobita brevimanus* and *Coenobita rugosus* (Crustacea: Decapoda: Anomura) from the Indian coast. *Marine Biodiversity Records*, 3: 1–4.

Reshma, R. and Bijukumar, A. (2011). New records of hermit crabs, *Calcinus morgani* Rahayu and Forest, 1999 and *Diogenes klaasi* Rahayu and Forest, 1995 (Crustacea: Anomura: Diogenidae) from India. *Journal of Threatened Taxa*, 3(5): 1771–1774.

Reshma, R. and Bijukumar, A. (2013). New report of the hermit crabs *Dardanus lagopodes* (Forskal, 1775), *Paguristes miyakei* Forest & McLaughlin, 1998 and *Oncopagurus monstrosus* (Alcock, 1894) (crustacea: decapoda: anomura) from the Indian coast. *Records of the Zoological Survey of India*, 113(1): 197–201.

Roberts, A. (1968). Some features of the central co-ordination of a fast movement in the crayfish. *Journal of Experimental Biology*, 49(3): 645–656.

Rodrigues, A. C. M. and Martinelli-Lemos, J. M. (2016). Gastropod shell utilisation pattern by the hermit crab *Clibanarius symmetricus* (Anomura: Diogenidae)

- in an Equatorial Amazon estuary. *Journal of natural history*, 50(41–42): 2657–2671.
- Rodrigues, L. J., Dunham, D. W. and Coates, K. A. (2000). Shelter preferences in the endemic Bermudian hermit crab, *Calcinus verrilli* (Rathbun, 1901) (Decapoda, Anomura). *Crustaceana-International Journal of Crustacean Research*, 73(6): 737–750.
- Rutherford, J. D. (1977). Removal of living snails from their shells by a hermit crab. *Veliger*, 19: 438–439.
- Sallam, W. S. (2012). Egg production and shell relationship of the land hermit crab *Coenobita scaevola* (Anomura: Coenobitidae) from Wadi El-emal, Red Sea, Egypt. *The Journal of Basic and Applied Zoology*, 65(2): 133–138.
- Sampaio, S. R. and Masunari, S. (2010). Characterization of the occupied shells by the hermit crab *Clibanarius vittatus* (Decapoda, Diogenidae) at Baixio Mirim tideflat, Guaratuba Bay, southern Brazil. *Anais da Academia Brasileira de Ciências*, 82: 833–842.
- Sanchez-Contreras, M. and Vlisidou, I. (2008). The diversity of insect-bacteria interactions and its applications for disease control. *Biotechnology and Genetic Engineering Reviews*, 25(1): 203–244.
- Sankolli, K. N. (1962). On a new species of hermit crab *Pagurus kulkarnii* sp. nov. (Anomura: Paguridae). *Journal of the Zoological Society of India*, 13(2): 136–142.
- Sankolli, K. N. and Shenoy, S. (1993). Larval development of the hermit crab *Diogenes miles* (Herbst, 1791) (Decapoda, Anomura, Diogenidae) in the laboratory. *Crustaceana*, 65(2): 253–264.
- Sant'Anna, B. S., Da Cruz Dominicano, L. C., Buozi, S. F. and Turra, A. (2012). Is shell partitioning between the hermit crabs *Pagurus brevidactylus* and *Pagurus criniticornis* explained by interference and/or exploitation competition?. *Marine Biology Research*, 8(7): 662–669.

- Sant'Anna, B. S., Zangrande, C. M., Reigada, A. L. and Pinheiro, M. A. (2006). Shell utilization pattern of the hermit crab *Clibanarius vittatus* (Crustacea, Anomura) in an estuary at São Vicente, State of São Paulo, Brazil. Iheringia. Série Zoologia, 96: 261–266.
- Sarojini, R. and Nagabhushanam, R. (1972). Pagurid crabs (Decapoda, Anomura) from Waltair coast. Records of the Zoological Survey of India, 66(1–4): 249–272.
- Sastray, A. N. (1983). Ecological aspects of reproduction. In: Waterman, T. H. (ed) *Biology of Crustacea*. VIII Environmental adaptations. Academic Press, Cambridge, Massachusetts, United States. pp. 179–270.
- Scelzo, M. A. (1985). Biología y morfometría del cangrejo *Petrolisthes politus* (GRAY, 1831) (Anomura. Porcellanidae) de la isla Cubagua, Venezuela. Boletín del Instituto Oceanográfico Universidad de Oriente, 24: 63–74.
- Schejter, L. and Mantelatto, F. L. (2011). Shelter association between the hermit crab *Sympagurus dimorphus* and the zoanthid *Epizoanthus paguricola* in the southwestern Atlantic Ocean. Acta Zoologica, 92(2): 141–149.
- Schejter, L., Scelzo, M. A. and Mantelatto, F. L. (2017). Reproductive features of the deep water hermit crab *Sympagurus dimorphus* (Anomura: Parapaguridae) inhabiting pseudoshells in the SW Atlantic Ocean. Journal of Natural History, 51(47–48): 2779–2792.
- Schembri, P. J. (1982). Feeding behaviour of fifteen species of hermit crabs (Crustacea: Decapoda: Anomura) from the Otago region, southeastern New Zealand. Journal of Natural History, 16(6): 859–878.
- Schnabel, K. E. and Ahyong, S. T. (2010). A new classification of the Chirostyloidea (Crustacea: Decapoda: Anomura). Zootaxa, 2687(1): 56–64.
- Schoener, T. W. (1974a). Resource Partitioning in Ecological Communities: Research on how similar species divide resources helps reveal the natural regulation of species diversity. Science, 185(4145): 27–39.

- Schoener, T. W. (1974b). Some methods for calculating competition coefficients from resource-utilization spectra. *The American Naturalist*, 108(961): 332–340.
- Scully, E. P. (1979). The effects of gastropod shell availability and habitat characteristics on shell utilization by the intertidal hermit crab *Pagurus longicarpus* Say. *Journal of Experimental Marine Biology and Ecology*, 37(2): 139–152.
- Shen, H., Braband, A. and Scholtz, G. (2013). Mitogenomic analysis of decapod crustacean phylogeny corroborates traditional views on their relationships. *Molecular Phylogenetics and Evolution*, 66(3): 776–789.
- Shih, H. T. and Mok, H. K. (2000). Utilization of shell resources by the hermit crabs *Calcinus latens* and *Calcinus gaimardii* at Kenting, southern Taiwan. *Journal of Crustacean Biology*, 20(4): 786–795.
- Shine, R. (1979). Sexual selection and sexual dimorphism in the Amphibia. *Copeia* 1979: 297–306.
- Shine, R. (1988). The evolution of large body size in females: a critique of Darwin's "fecundity advantage" model. *The American Naturalist*, 131: 124–131.
- Singh, H. S. (2002). *Marine protected areas in India: status of coastal wetlands and their conservation*. Gujarat Ecological Education and Research (GEER) Foundation.
- Siu, B. F. and Lee, S. Y. (1992). Shell preference and utilization pattern in two hermit crabs, *Pagurus trigonochirus* (Stimpson) and *Clibanarius bimaculatus* (De Haan), on a sheltered rocky shore in Hong Kong. *Asian Marine Biology*, 9: 205–216.
- Snively, G. (1978). *Exploring the Seashore in British Columbia, Washington, and Oregon: A Guide to Shorebirds and Intertidal Plants and Animals*. Gordon Soules Book Publishers, Inc, West Vancouver, Canada. pp. 240.

- Snow, P. J. (1973). The antennular activities of the hermit crab, *Pagurus alaskensis* (Benedict). *Journal of Experimental Biology*, 58(3): 745–765.
- Southward, A. J. and Southward, E. C. (1977). Distribution and ecology of the hermit crab *Clibanarius erythropus* in the western Channel. *Journal of the Marine Biological Association of the United Kingdom*, 57(2): 441–452.
- Southwell, T. (1909). Report on the Anomura collected by Mr. James Hornell at Okhamandal in Kattiawar in 1905–6. *Report to the Government of Baroda on the marine ecology of Okha Mandal in Kattiawar*. Part I. London, 105–123.
- Spight, T. M. (1977). Availability and use of shells by intertidal hermit crabs. *The Biological Bulletin*, 152(1): 120–133.
- Spivak, E. D., Gavio, M. A. and Navarro, C. E. (1991). Life history and structure of the world's southernmost *Uca* population: *Uca uruguayensis* (Crustacea, Brachyura) in Mar Chiquita Lagoon (Argentina). *Bulletin of Marine Science*, 48(3): 679–688.
- Stachowitsch, M. (1977). The hermit crab microbiocoenosis—the role of mobile secondary hard bottom elements in a North Adriatic benthic community. In: *Biology of benthic organisms, 11th European Symposium on Marine Biology*, Galway, 11: 549–558.
- Stearns, S. C. (1992). *The Evolution of Life Histories*. Oxford University Press, Oxford, United Kingdom, pp. 249.
- Stephenson, T. A. and Stephenson, A. (1949). The universal features of zonation between tide-marks on rocky coasts. *The Journal of Ecology*, 289–305.
- Stillman, J. H. and Somero, G. N. (2000). A comparative analysis of the upper thermal tolerance limits of eastern Pacific porcelain crabs, genus *Petrolisthes*: influences of latitude, vertical zonation, acclimation, and phylogeny. *Physiological and Biochemical Zoology*, 73: 200–208.
- Taylor, P. R. (1981). Hermit crab fitness: the effect of shell condition and behavioral adaptations on environmental resistance. *Journal of Experimental Marine Biology and Ecology*, 52(2–3): 205–218.

- Teissier, G. (1960). Relative growth. In: Waterman T. H. (ed) *The physiology of crustacea*. Academic Press, New York, United States, (1): 537–60.
- Teoh, H. W. and Chong, V. C. (2014). Shell use and partitioning of two sympatric species of hermit crabs on a tropical mudflat. *Journal of Sea Research*, 86: 13–22.
- Thacker, D. R., Patel, K. J., Patel, P. R. and Trivedi, J. N. (2021). Gastropod shell occupation pattern of hermit crab *Clibanarius rhabdodactylus* Forest, 1953 in the infralittoral zone of Gulf of Kachchh, Gujarat, India. *Uttar Pradesh Journal of Zoology*, 42(5): 20–31.
- Thompson, R. C., Crowe, T. P. and Hawkins, S. J. (2002). Rocky intertidal communities: past environmental changes, present status and predictions for the next 25 years. *Environmental conservation*, 29(2): 168–191.
- Thorson, G. (1950). Reproductive and larval ecology of marine bottom invertebrates. *Biological reviews*, 25(1): 1–45.
- Thurman II, C. L. (1985). Reproductive biology and population structure of the fiddler crab *Uca subcylindrica* (Stimpson), *Biological Bulletin*, 169: 215–229.
- Tomanek, L. and Helmuth, B. (2002). Physiological ecology of rocky intertidal organisms: a synergy of concepts. *Integrative and Comparative Biology*, 42(4): 771–775.
- Trivedi, J. N. and Vachhrajani, K. D. (2012a). Distribution and diversity of brachyuran crabs along the coastal region of Junagadh district, Gujarat. *Proceedings of the Biodiversity and Conservation of Coastal and Marine Ecosystems of India*, 1: 8–14.
- Trivedi, J. N. and Vachhrajani, K. D. (2012b). New record of color morphs of brachyuran crab *Charybdis annulata* Fabricius, (1798) (Decapoda: Portunidae). *Arthropods*, 1(4): 129–135.
- Trivedi, J. N. and Vachhrajani, K. D. (2013a). First record of *Cryptopodia angulata* H. Milne Edwards and Lucas, 1841 from Saurashtra coast, Gujarat, India (Decapoda: Brachyura: Parthenopidae). *Check List*, 9(4): 897–898.

Trivedi, J. N. and Vachhrajani, K. D. (2013b). Study of colour morphs of brachyuran crab *Etisus laevimanus* Randall, 1840. Indian Journal of Geo-Marine Science, 42(5): 659–664.

Trivedi, J. N. and Vachhrajani, K. D. (2013c). Study of intertidal distribution of *Cerithium scabridum*, Philippi, (1848) (Mollusca, Gastropoda) along the coastal Saurashtra, Gujarat, India. In: Proceedings of National Conference on Biodiversity: Status and Challenges in Conservation. BN Bandodkar College of Science, Mumbai, Maharashtra, India, pp. 130–135.

Trivedi, J. N. and Vachhrajani, K. D. (2014a). Pattern of shell utilization in the hermit crab *Clibanarius zebra* (Dana, 1852) along the Saurashtra coast, Gujarat, India. Tropical Zoology, 27(4): 129–139.

Trivedi, J. N. and Vachhrajani, K. D. (2014b). Intertidal distribution of zooxanthellate zoanthids (Cnidaria: hexacorallia) along the coastal Saurashtra, Gujarat, India. European Journal of Zoological Research, 3(1): 1–8.

Trivedi, J. N. and Vachhrajani, K. D. (2015). First record of brachyuran crab *Leptodius affinis* (De Haan, 1835) (Crustacea: Decapoda: Xanthidae) from the western coast of India. Marine Biodiversity Records, 8: 1–5

Trivedi, J. N. and Vachhrajani, K. D. (2016a). On new record of *Pagurus kulkarni* Sankolli, 1962. (Crustacea: Anomura: Paguridae) from Gujarat, India. International Journal of Fisheries and Aquatic Studies, 4: 183–185.

Trivedi, J. N. and Vachhrajani, K. D. (2016b). On identity of *Atergatis oxyroe* (Herbst, 1801) (Crustacea: Brachyura: Xanthidae) in Indian waters. International Journal of Fauna and Biological Studies, 3(2): 62–64.

Trivedi, J. N. and Vachhrajani, K. D. (2016c). On new record of *Pagurus kulkarni* Sankolli, 1962 (Crustacea: Anomura: Paguridae) from Gujarat, India. International Journal of Fisheries and Aquatic Studies, 4(2): 183–185.

Trivedi, J. N. and Vachhrajani, K. D. (2017). An annotated checklist of hermit crabs (Crustacea, Decapoda, Anomura) of Indian waters with three new records. Journal of Asia-Pacific Biodiversity, 10(2): 175–182.

- Trivedi, J. N., Ahyong, S. T., Vachhrajani, K. D. and Kumar, A. B. (2020). An annotated checklist of the mantis shrimps of India (Crustacea: Stomatopoda). *Zootaxa*, 4768(2): 221–238.
- Trivedi, J. N., Arya, S. and Vachhrajani, K. D. (2013). Gastropod shell utilization preferences of hermit crab *Clibanarius zebra* (Dana, 1852) (Diogenidae: Anomura). *TAPROBANICA: The Journal of Asian Biodiversity*, 5(1): 12–18.
- Trivedi, J. N., Osawa, M. and Vachhrajani, K. D. (2016). A new species of the genus *Diogenes* Dana, (1851). (Crustacea: Decapoda: Anomura: Diogenidae) from Gujarat, northwestern India. *Zootaxa*, 4208(2): 189–197.
- Trivedi, D. J., Trivedi, J. N., Soni, G. M., Purohit, B. D. and Vachhrajani, K. D. (2015a). Crustacean fauna of Gujarat state of India: A review. *Electronic Journal of Environmental Sciences*, 8: 23–31.
- Trivedi, J. N., Soni, G. and Vachhrajani, K. D. (2015b). On new records of hermit crabs (Anomura: Paguroidea: Diogenidae) from Gujarat state of India. *Electronic Journal of Environmental Sciences*, 8: 33–42.
- Trivedi, J. N., Soni, G. M., Trivedi, D. J. and Vachhrajani, K. D. (2015c). A new species of *Ilyoplax* (Decapoda, Brachyura, Dotillidae) from Gujarat, India. *Journal of Asia-Pacific Biodiversity*, 8(2): 173–177.
- Trivedi, J. N., Soni, G. M. and Vachhrajani, K. D. (2015d). First record of brachyuran crab *Heteropanope glabra* Stimpson, 1858 (Crustacea, Decapoda, Pilumnidae) from India. *Marine Biodiversity Records*, 8: 1–5.
- Trivedi, J. N., Trivedi, D. J. and Vachhrajani, K. D. (2017). Range extension of brachyuran crabs of the family Camptandriidae Stimpson, 1858 (Crustacea: Decapoda: Brachyura) in Indian waters. *Check List*, 13(3): 2145–2145.
- Trivedi, J. N., Trivedi, D. J., Vachhrajani, K. D. and Peter, K. L. Ng. (2018). An annotated checklist of the marine brachyuran crabs (Crustacea: Decapoda: Brachyura) of India. *Zootaxa*, 4502(1): 1–83.

Trivedi, J., Patel, K., Chan, B. K., Doshi, M. and Padate, V. (2021). Diversity of Indian barnacles in marine provinces and ecoregions of the Indian Ocean. *Frontiers in Marine Science*, 8: 657651.

Trivers, R. L. (1972). Parental investment and sexual selection. In: Campbell, B. (ed), *Sexual selection and the descent of man, 1871–1971*. University of California Los Angeles, Aldine Publishing Company, Chicago, United States, 136–179.

Tsang, L. M., Ahyong, S. T., Chan, T. Y. and Chu, K. H. (2008). Phylogeny of Decapoda using two nuclear protein-coding genes: Origin and evolution of the Reptantia. *Molecular Phylogenetics and Evolution*, 48(1): 359–368.

Tsang, L. M., Chan, T. Y., Ahyong, S. T. and Chu, K. H. (2011). Hermit to King, or Hermit to All: Multiple Transitions to Crab-like Forms from Hermit Crab Ancestors. *Systematic Biology*, 60(5): 616–629.

Tunberg, B. G., Nelson, W. G. and Smith, G. (1994). Population ecology of *Pagurus maclaughlinae* Garcia-Gomez (Decapoda: Anomura: Paguridae) in the Indian River Lagoon, Florida. *Journal of Crustacean Biology*, 14(4): 686–699.

Turra, A. and Leite, F. P. (2003). The molding hypothesis: linking shell use with hermit crab growth, morphology, and shell-species selection. *Marine Ecology Progress Series*, 265(3): 155–163.

Turra, A. and Denadai, M. R. (2003). Daily activity of four tropical intertidal hermit crabs from southeastern Brazil. *Brazilian Journal of Biology*, 63(3): 537–544.

Turra, A. and Leite, F. P. (1999). Population structure and fecundity of the hermit crab *Clibanarius antennatus* Stimpson 1862 (Anomura, Diogenidae) in southeastern Brazil. *Bulletin of Marine Science*, 64(2): 281–289.

Turra, A. and Leite, F. P. (2000). Population biology and growth of three sympatric species of intertidal hermit crabs in south-eastern Brazil. *Journal of the Marine Biological Association of the United Kingdom*, 80(6): 1061–1069.

- Turra, A. and Leite, F. P. (2001). Shell Utilization Patterns of a Tropical Rocky Intertidal Hermit Crab Assemblage: I. The Case of Grande Beach. *Journal of Crustacean Biology*, 21(2): 393–406.
- Turra, A. and Leite, F. P. (2002). Shell utilization patterns of a tropical intertidal hermit crab assemblage. *Journal of the Marine Biological Association of the United Kingdom*, 82: 97–107.
- Turra, A. and Leite, F. P. (2004). Shell-size selection by intertidal sympatric hermit crabs. *Marine Biology*, 145(2): 251–257.
- Turra, A., Branco, J. O. and Souto, F. X. (2002). Population biology of the hermit crab *Petrochirus diogenes* (Linnaeus) (Crustacea, Decapoda) in Southern Brazil. *Revista brasileira de Zoologia*, 19(4): 1043–1051.
- Underwood, A. J. (1981). Structure of a rocky intertidal community in New South Wales: patterns of vertical distribution and seasonal changes. *Journal of Experimental Marine Biology and Ecology*, 51(1): 57–85.
- Vaghela, A. and Kundu, R. (2012). Spatiotemporal variations of hermit crab (Crustacea: Decapoda) inhabiting rocky shore along Saurashtra coast, western coast of India. *Indian Journal of Geo- Marine Science*, 41(2): 146–151.
- Vaghela, A. (2010). *Spatial and Temporal Variations in Population Dynamics of Few Key Rocky Intertidal Macrofauna at Anthropogenically Influenced Intertidal shoreline*. Ph. D. Thesis, Saurashtra University, Gujarat, India. pp. 182.
- Valiela, I., Babiec, D. F., Atherton, W., Seitzinger, S. and Krebs, C. (1974). Some consequences of sexual dimorphism: feeding in male and female fiddler crabs *Uca pugnax* (Smith). *Biological Bulletin*, 147: 652–660.
- Vance, R. R. (1972). The role of shell adequacy in behavioral interactions involving hermit crabs. *Ecology*, 53: 1075–1083

- Varadarajan, S. and Subramoniam, T. (1982). Reproduction of the continuously breeding tropical hermit crab *Clibanarius clibanarius*. Marine ecology progress series. Oldendorf, 8(2): 197–201.
- Venkataraman, K. and Raghunathan, C. (2015). Coastal and marine biodiversity of India. In Marine Faunal Diversity in India. In: Venkataraman, K. and Sivaperuman, C. (eds), *Marine Faunal Diversity in India*. Academic Press, India, 303–348.
- Venkataraman, K. and Wafar, M. (2005). Coastal and marine biodiversity of India. Indian Journal of Marine Science, 34: 57–75
- Venkataraman, K., Raghunathan, C., Raghuraman, R. and Sreeraj, C. R. (2012). Marine biodiversity in India. Published by Director, Zoological Survey of India, Kolkata, India. pp.178
- Vermeij, G. J. (1976). Interceanic differences in vulnerability of shelled prey to crab predation. Nature, 260(5547): 135–136.
- Vogt, G. (2012). Ageing and longevity in the Decapoda (Crustacea): a review. Zoologischer Anzeiger-A Journal of Comparative Zoology, 251(1): 1–25.
- Vogt, G., Wellborn, G. A. and Thiel, M. (2018). Growing old: aging in Crustacea. The natural history of the Crustacea: Life Histories, 5: 179–202.
- Von Hagen, H. O. (1987). Morphology and waving display of a new species of *Uca* (Crustacea, Brachyura) from the State of Espírito Santo (Brazil). Mitteilungen aus dem Hamburgischen Zoologischen Museum und Institut, 84: 81–94.
- Wada, S. (1999). Environmental factors affecting sexual size dimorphism in the hermit crab *Pagurus middendorffii*. Journal of Marine Biological Association of the United Kingdom, 79: 953–954.
- Wada, S., Kitaoka, H. and Goshima, S. (2000). Reproduction of the hermit crab *Pagurus lanuginosus* and comparison of reproductive traits among sympatric species. Journal of Crustacean Biology, 20(3): 474–478.

- Wada, S., Ohmori, H., Goshima, S. and Nakao, S. (1997). Shell-size preference of hermit crabs depends on their growth rate. *Animal Behaviour*, 54(1): 1–8.
- Wait, M. and Schoeman, D. S. (2012). Shell use, population structure, and reproduction of the hermit crab, *Clibanarius virescens* (Kraus, 1843) at Cape Recife, South Africa. *Journal of Crustacean Biology*, 32(2): 203–214.
- Wehrtmann, I. S. and Acuña, E. (2011). Squat lobster fisheries. In: Poore Taylor J. and Ahyong S. (eds.) *The biology of squat lobsters*. CSIRO Publishing, Ukraine, 20: 297–322.
- Wenner, A. M. (1972). Sex ratio as a function of size in marine Crustacea. *The American Naturalist*, 106(949): 321–350.
- Wethey, W. S. (1983). Ecographic limits and local zonation: the barnacles *Semibalanus* (*Balanus*) and *Chthamalus* in New England. *The Biological Bulletin*, 165: 330–341.
- Whitman, K. L., McDermott, J. J. and Oehrlein, M. S. (2001). Laboratory studies on suspension feeding in the hermit crab *Pagurus longicarpus* (Decapoda: Anomura: Paguridae). *Journal of Crustacean Biology*, 21(3): 582–592.
- Wiklund, C. and Karlsson, B. (1988). Sexual size dimorphism in relation to fecundity in some Swedish satyrid butterflies. *The American Naturalist*, 131: 132–13.
- Wilber Jr, T. P. and Herrnkind, W. (1982). Rate of new shell acquisition by hermit crabs in a salt marsh habitat. *Journal of Crustacean Biology*, 2(4): 588–592.
- Wilber, Jr. T. P. (1989). Associations between gastropod shell characteristics and egg production in the hermit crab *Pagurus longicarpus*. *Oecologia* 81: 6–15.
- Williams A. B. (1984), *Shrimps, Lobsters and Crabs of the Atlantic Coast of the Eastern United States, Maine to Florida*. Smithsonian Institution Press, Washington, DC, United States, pp. 550
- Williams, J. D. and McDermott, J. J. (2004). Hermit crab biocoenoses: a worldwide review of the diversity and natural history of hermit crab associates. *Journal of experimental marine biology and ecology*, 305(1): 1–128.

- Wolcott, T. G. (1973). Physiological ecology and intertidal zonation in limpets (Acmaea): a critical look at "limiting factors". *The Biological Bulletin*, 145(2): 389–422.
- Wolf, P. L., Shanholtzer, S. F. and Reimold, R. J. (1975). Population estimates for *Uca pugnax* (Smith, 1870) on the Duplin estuary marsh, Georgia, E.U.A. (Decapoda, Brachyura, Ocypodidae). *Crustaceana*, 29: 79–91.
- Wootton, R. J. (1993). *The evolution of life histories: theory and analysis*. Springer New York, Unite States. pp. 548.
- Worcester, S. E. and Gaines, S. D. (1997). Quantifying hermit crab recruitment rates and megalopal shell selection on wave-swept shores. *Marine Ecology Progress Series*, 157: 307–310.
- WoRMS Editorial Board (2022). World Register of Marine Species. Available from <https://www.marinespecies.org> at VLIZ. Accessed on date: 2022-11-21.
- Xu, J., Xiong, J. and Mizoguchi, R. (2008). Toward an Ontology for Ocean Ecology and Sustainability. In: *The 22nd Annual Conference of the Japanese Society for Artificial Intelligence*, 22: 1–4.
- Zhang, X. G., Siveter, D. J., Waloszek, D. and Maas, A. (2007). An epipodite-bearing crown-group crustacean from the Lower Cambrian. *Nature*, 449(7162): 595–598.
- Zimmerman, T. L. and Felder, D. L. (1991). Reproductive ecology of an intertidal brachyuran crab, *Sesarma* sp. (nr. *reticulatum*), from the Gulf of Mexico. *The Biological Bulletin*, 181(3): 387–401.