Scopus

Search Sources Alerts Lists Help SciVal Register Login

Document details

Back to results | 1 of 1

Export Download Print E-mail Save to PDF Add to List More...

Sains Malaysiana
Volume 43, Issue 4, April 2014, Pages 529-534

Trace metals in Thais clavigera along coastal waters of the east coast of Peninsular Malaysia (Article)

Miskon, F.M.[a], Shazili, N.A.M.[b], Mohammad, F.[c], Yunus, K.[d]

[a]Institute of Oceanography and Maritime Studies, Kulliyah of Science, International Islamic University Malaysia, 25200 Kuantan, Pahang, Malaysia
[b]Faculty of Maritime Studies and Marine Science, Universiti Malaysia Terengganu, 21030 Kuala Terengganu, Terengganu, Malaysia
[c]Department of Biological Science, Faculty of Science and Technology, Universiti Malaysia Terengganu, 21030 Kuala Terengganu, Terengganu, Malaysia

View additional affiliations

Abstract

View references (29)

The selected trace metals in the soft tissue of Thais clavigera from 11 sampling sites along the coastal waters of the east coast of Peninsular Malaysia were studied. Significant inter-spatial variations in trace metals were recorded. Sites with relatively high concentrations of the contaminant metals Hg, Cd, Pb and Zn are correlated to their close proximity to industrial and urban sites or to boating and aquaculture activities. This could possibly be contributed by the high growth of industrial activities like port and sewage release. Interspatial comparison with previous studies indicated lower measurement. Meanwhile, comparison with other studies around the world also designated lower values except for Zn. The metal accumulation patterns indicated an enrichment of essential metals over non-essential metals. Comparison of metal concentration with maximum permissible limits of toxic metals in food established in different countries, as well as Malaysian Food Act 1983 and Food Regulations 1985 Fourteen Schedule, indicated the values were well within safety levels.

Author keywords

Coastal waters of the east coast of Peninsular Malaysia; Food safety level; Heavy metals; Thais clavigera

Indexed keywords

GEOBASE Subject Index: bioaccumulation; coastal water; food safety; snail; spatial variation; toxicity; trace metal

Regional Index: Malaysia

Species Index: Thais clavigera

ISSN: 01266039
Source Type: Journal
Original language: English

Document Type: Article
Publisher: Penerbit Universiti Kebangsaan Malaysia

References (29)

View in search results format

All Export Print E-mail Save to PDF Create bibliography

Metrics View all metrics

2 Citations in Scopus
55th Percentile
0.15 Field-Weighted Citation Impact

PlumX Metrics
Usage, Captures, Mentions, Social Media and Citations beyond Scopus.

Cited by 2 documents

Metal accumulation in the tissues and shells of Indothais gradata snails inhabiting soft and hard substrata in an acidified tropical estuary (Brunei, South East Asia)
Proum, S., Santos, J.H., Lim, L.H.
(2016) Regional Studies in Marine Science

Trace metal in highly commercial Fishes caught along coastal water of Setiu, Terengganu, Malaysia
Ong, M.C., Kamaruzzaman, M.I., Norhidayah, S.A.
(2016) International Journal of Applied Chemistry

View all 2 citing documents

Inform me when this document is cited in Scopus:
Set citation alert Set citation feed

Related documents

Biomonitoring of heavy metals using intertidal molluscs in east Johor coastal waters | Biopemerhatian logam berat menggunakan moluska intertidal di perairan pantai Johor timur
Rahman, M.M., Miskon, F., Yunus, K.
(2016) Malaysian Journal of Analytical Sciences

Nerita chamaeleon as biomonitoring agent for Pb, Cd, Cu and Zn in Malaysian intertidal rocky shore environment
Miskon, M.F., Shazili, N.A.M., Mohamad, F.
(2015) Oriental Journal of Chemistry

Trace metals and rare earth elements in Rock Oyster Saccostrea