

Publication list of CARER

a. In Journals

Publication through International Collaboration

1. Determination of radon concentration in soil gas by gamma-ray spectrometry of olive oil
Darwish Al-Azmi. and N. Karunakara
Journal of Radiation Measurements, Vol. 42, 486 – 490, 2007.
2. Natural radioactivity in soil samples of Botswana
Murthy V. R. K. and N. Karunakara
Journal of Radiation Measurements, 43; 1541–1545; 2008.
3. Indoor and outdoor radon levels and its diurnal variations in Botswana
Murthy V. R. K., King, J. G., N. Karunakara, Raju V.C.C.
Nuclear Instruments and Methods in Physics Research A, Available online since 25 October, 2009.
4. A Study on Radon Absorption Efficiencies of Edible Oils Produced in India
N. Karunakara and Darwish Al-Azmi
Health Physics, 98(4), 621-627, 2010.
5. A simple radon chamber for use with soil gas for calibration of radon measuring devices and instruments
Darwish Al-Azmi. and N. Karunakara
International Journal of Low Radiation, 8 No. 5/6, 429-439, 2011.
6. Application of the Monte Carlo method for the efficiency calibration of CsI and NaI detectors for gamma-ray measurements from terrestrial samples
S. Baccouche, Darwish Al-Azmi, N. Karunakara and A. Trabelsi
Applied Radiation and Isotopes 70, No. 1, 227-232, 2012.
7. Radon adsorbed in activated charcoal - a simple and safe radiation source for teaching practical radioactivity in schools and colleges
D. Al-Azmi, A. Mustapha and N. Karunakara
PHYSICS EDUCATION, 47(4), 471-475, 2012.
8. Teaching about natural background radiation.
D. Al-Azmi, A. Mustapha and N. Karunakara.
PHYSICS EDUCATION, 48 (4), 506-511, 2013.
9. Measurements of fission yield in 8 MeV bremsstrahlung induced fission of ^{232}Th and ^{238}U
H. Naik, B. S. Shivashankar, H. G. Raj Prakash, Deves Raj, Ganesh Sanjeev, N. Karunakara, H. M. Somashekarappa, S. Ganesan, G. N. Kim, A. Goswami
Journal of Radioanalytical and Nuclear Chemistry, 299:127–137, 2014.
10. Phosphate solubilizing uranium tolerant bacteria associated with monazite sand of a natural background radiation site in South-West coast of India.
Sowmya Shreedhar & Rekha Panchapady Devasya, Naregundi Karunakara & Chiu-Chung Young and Arun Ananthapadmanabha Bhagwath
Annals of Microbiology, Springer, Available online since Feb. 2014.

11. Problems with the dating of sediment core using excess ^{210}Pb in a freshwater system.
Mark Baskaran, Joseph Nix, and Naregundi Karunakara
Journal of Environmental Radioactivity, 138, 341-342, 2014.
12. Assessment of γ -radiation levels and associated dose rates from surface soils in the eastern part of Botswana
Alfred Sello Likuku, N. Karunakara, Gothatamang Patrick Nthoiwa
International Journal of Low Radiation, Vol. 9, Nos. 5/6, 344-354, 2014
13. Special issue of Journal of Environmental Radioactivity on 2nd International Conference on Po and radioactive Pb isotopes.
Edited by N. Karunakara, M Baskaran *Journal of Environmental Radioactivity* 138, 341-342, 2014
14. Baseline studies on radionuclide concentration in food materials and estimation of the committed radiation dose around the phosphate industrial area of south Tunisia.
Sonia Machraoui, M. P. Mohan, N. Karunakara, Salam Labidi *Radiation Protection Dosimetry* 208, 1-11, (2018).
15. Gamma dose rates in the high background radiation area of Mangalore region, India
Darwish Al-Azmi, K. Sudeep Kumara, M. P. Mohan and N. Karunakara
Radiation Protection Dosimetry, pp. 1–4, (2019).
16. Assessment of radionuclide transfer factors and transfer coefficients near phosphate industrial areas of South Tunisia
Sonia Machraoui & Mohan Mandya Purushotham, Karunakara Naregundi and Salam Labidi
Environmental Science and Pollution Research, Springer Nature, <https://doi.org/10.1007/s11356-019-05786-8>
17. A Walk-In Type Calibration Chamber Facility For ^{222}Rn Measuring Devices and Inter-Comparison Exercises
S. Trilochana, H.M. Somashekarappa, K. Sudeep Kumara, M.P. Mohan, S. Rashmi Nayak, Renita Shiny D'Souza, Srinivas S. Kamath, B.K. Sahoo, J.J. Gaware, B.K. Sapra, M. Janik, Darwish Al-Azmi, Y.S. Mayya And N. Karunakara
Radiation Protection Dosimetry (2019), Pp. 1–16 Doi:10.1093/Rpd/Ncz188

Other Publications in International Journals

18. Prominent alpha emitting radionuclides in Kaiga environs
Karunakara N., Somashekarappa H. M., Narayana Y., Balakrishna K. M. and Siddappa K. *Indian Journal of Environmental Protection*, Vol. 14, No. 4, 241-245, 1994.
19. Distribution and enrichment of radionuclides in the newly discovered high background area in Ullal on the south west coast of India
Narayana Y., Radhakrishna A. P., Somashekarappa H. M., Karunakara N., Balakrishna K. M. and Siddappa K.
Health Physics (USA), Vol. 69, No. 2, 178-186, 1995.

20. Distribution of some natural and artificial radionuclides in the environment of coastal Karnataka of south India
Narayana Y., Radhakrishna A. P., Somashekarappa H. M., Karunakara N., Balakrishna K. M. and Siddappa K.
Journal of Environmental Radioactivity (UK), Vol. 28, No. 2, 113-139, 1995.
21. Internal exposure to the population of coastal Karnataka of south India from dietary intake
Narayana Y., Radhakrishna A. P., Somashekarappa H. M., Karunakara N., Balakrishna K. M. and Siddappa K.
Radiation Protection Dosimetry (UK), Vol. 62, No. 3, 131-138, 1995.
22. Indoor radon levels in coastal Karnataka on the south west coast of India
Narayana Y., Somashekarappa H. M., Karunakara N., Balakrishna K. M., Siddappa K., Kumar S., Gopalani D. & Ramaseshu P.
Bulletin of Radiation Protection (India), Vol. 19, No. 2 & 3, 12-15, 1996.
23. Bioindicators in the tropical forest vegetation of Kaiga environment
Somashekarappa H. M., Radhakrishna A. P., Narayana Y., Karunakara N., Balakrishna K. M. and Siddappa K.
Journal of Environmental Radioactivity (UK), Vol. 31, No. 2, 189-198, 1996.
24. Seasonal variation of indoor radon levels in coastal Karnataka on the south west coast of India
Narayana Y., Radhakrishna A. P., Somashekarappa H. M., Karunakara N., Balakrishna K. M. and Siddappa K.
Radiation Measurements, USA, Vol. 29, No. 1, 19-25, 1998.
25. Cesium-137 concentration in Kaiga environment
Karunakara N., Somashekarappa H. M., Narayana Y., Avadhani D. N., Mahesh H. M., Balakrishna K. M. and Siddappa K.
Radiation Physics and Chemistry, UK, Vol. 51, No. 4-6, 623-624, 1998.
26. Radioactivity and radiation levels in the environs of Kaiga
Karunakara N., Avadhani D. N., Mahesh H. M., Somashekarappa H. M., Narayana Y. and Siddappa K.
Environmental Geochemistry, India, Vol. 1, No. 1, 1- 4, 1998.
27. ^{238}U , ^{210}Pb and ^{210}Po concentrations in water samples of Coastal Karnataka and Kaiga environs
Mahesh H. M., Avadhani D. N., Karunakara N., Somashekarappa H. M., Narayana Y. and Siddappa K.
Environmental Geochemistry, India, Vol. 1, No. 2, 59-62, 1998
28. Polonium-210 concentration in food and diet samples of the Goa environs, India
Avadhani D. N., Mahesh H. M., Karunakara N., Somashekarappa H. M., Narayana Y. and Siddappa K.
Environmental Geochemistry, India, Vol. 2, No. 1, 1-4, 1999.

29. Prominent artificial radionuclides in the environment of coastal Karnataka of south west coast of India
Narayana Y., Karunakara N., Avadhani D. N., Mahesh H. M., Somashekarappa H. M. and Siddappa K.
Journal of Radiological Protection, UK Vol. 20, 295-300, 2000.
30. Distribution and enrichment of ^{210}Po in the environment of Kaiga in south India
Karunakara N., Avadhani D. N., Mahesh H. M., Somashekarappa H. M., Narayana Y. and Siddappa K.
Journal of Environmental Radioactivity, UK, 51, 349-362, 2000.
31. Distribution and behavior of ^{210}Po and ^{210}Pb in soil samples of Goa, south west coast of India
Avadhani D. N., Mahesh H. M., Somashekarappa H. M., Karunakara N., Narayana Y. and Siddappa K.
Journal of Radiation Protection and Environment. India. Vol. 24, Nos. 1&2, 401-405, 2001.
32. ^{210}Pb concentration in air and water samples in the environment of coastal Karnataka and Kaiga
Mahesh H. M., Avadhani D. N., Somashekarappa H. M., Karunakara N., Narayana Y. and Siddappa K.
Journal of Radiation Protection and Environment, India. Vol. 24, Nos. 1&2, 406-409, 2001.
33. Natural radioactivity in the environment of Goa of south-west coast of India
Avadhani D. N., Mahesh H. M., Somashekarappa H. M., Karunakara N., Narayana Y. and Siddappa K.
Journal of Radiation Protection and Environment, India. Vol. 24, Nos. 1&2 (Suppl.), S136-S142, 2001.
34. Natural radioactivity in beach sands of Goa of South-West coast of India.
Avadhani D. N., Mahesh H. M., Somashekarappa H. M., Karunakara N., Narayana Y. and Siddappa K.
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35. $^{210}\text{Po}/^{210}\text{Pb}$ Ratio in Air and Rain water samples in the Environment of coastal Karnataka and Kaiga
Mahesh H. M., Avadhani D. N., Somashekarappa H. M., Karunakara N., Narayana Y. and Siddappa K.
Journal of Radiation Protection and Environment, India. Vol. 24, Nos. 1&2 (Suppl.) S71-S75, 2001.
36. Distribution of Natural radionuclides in soil samples of coastal Karnataka of south west coast of India
Narayana Y., Karunakara N., Somashekarappa H. M., Avadhani D. N., Mahesh H. M. and Siddappa K.
Health Physics, USA, Vol. 80, No.1, 24-33, 2001.
37. ^{226}Ra , ^{232}Th and ^{40}K concentrations in soil samples of Kaiga of south west coast of India

- Karunakara N, Somashekarappa H M, Narayana Y, Avadhani D N, Mahesh H M and Siddappa K
Health Physics, USA, No.5, 470-476, 2001.
38. ¹³⁷Cs Concentration in Environment of Kaiga in the south west coast of India
 Karunakara N., Avadhani D. N., Mahesh H. M., Somashekarappa H. M., Narayana Y. and Siddappa K.
Health Physics, USA, Vol. 81, No 2, 148-155, 2001.
 39. Dietary intake of ²¹⁰Po and ²¹⁰Pb in the environment of Goa of south west coast of India
 Avadhani D. N., Mahesh H. M., Karunakara N., Narayana Y., Somashekarappa H. M. and Siddappa K.
Health Physics, USA, Vol.81, No. 4, 438-445, 2001.
 40. Radon-222 concentration in Ground waters and associated health effects in the environment of coastal Karnataka and Kaiga on south west coast of India
 Mahesh H. M., Avadhani D. N., Karunakara N., Somashekarappa H. M., Narayana Y. and Siddappa K.
Health Physics, USA, Vol.81, No. 6, 724-728, 2001.
 41. ²²⁶Ra, ⁴⁰K and ⁷Be activity concentrations in plants in the environment of Kaiga of south west Coast of India
 Karunakara N., Somashekarappa H. M., Narayana Y., Avadhani D. N., Mahesh H. M. and Siddappa, K.
Journal of Environmental Radioactivity, Vol. 65, 255-266, 2003.
 42. Distribution and behaviour of natural radionuclides in soil samples of Goa on the southwest coast of India
 Avadhani D. N., Mahesh H. M., Karunakara N., Narayana Y., Somashekarappa H. M., and Siddappa, K.
Radioactivity in the Environment, Vol. 7, ISSN 1569-4860, 1131-1140, 2005.
 43. Natural radioactivity in South West Coast of India
 Karunakara N., Somashekarappa H. M. and Siddappa, K.
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 44. Indoor and outdoor radon levels and their diurnal variations in the environs of southwest coast of India
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 45. Transportation of radionuclides from Western Ghats to Arabian Sea through some major rivers of south India
 Rajshekara K. M., Narayana Y., Karunakara N., and Siddappa, K.
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 Avadhani D. N., Mahesh H. M., Karunakara N., Narayana Y., Somashekarappa H. M. and Siddappa K.
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47. ^{210}Pb measurement in soils - A comparison of gamma ray spectrometry and alpha counting methods
Karunakara N.
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48. Concentrations of Concentrations of ^{226}Ra , ^{232}Th and ^{40}K in the Soils of Bangalore Region, India
Shiva Prasad N. G., Nagaiah N., Ashok G. V. and Karunakara N.
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49. Study on radionuclides in granite quarries of Bangalore rural district, Karnataka, India
Ningappa C., Sannappa J. and Karunakara N.
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50. Site specific transfer factors of ^{226}Ra , ^{228}Ra , ^{40}K and ^{137}Cs for vegetables in Kaiga region
Chetan Rao, Ujwal Prabhu, Karunakara N., Somashekarappa H. M., Nayak, P. D. and Ravi P. M.
Radiation Protection and Environment, Vol. 31, No. 1-4, 435-455, 2008.
51. Natural Radioactivity in Udupi and Karkala Taluks of Coastal Karnataka
Gerald Pinto, N. Karunakara, H. M. Somashekarappa, Chetan Rao, Ujwal Prabhu and I. Yashodhara
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52. Radiation levels and radionuclide distributions in soils of Gogi region, a proposed uranium mining region in North Karnataka.
Yashodhara, I., Karunakara, N., Sudeep Kumara, K., Rudramurthy., and Tripathi, R. M.,
Journal of Radiation Protection and Environment. Volume 34, Issue 4, pp 267-269. 2011.
53. Estimation of grass to milk transfer coefficient for Cesium for emergency situations.
Ujwal P., Karunakara N., Yashodhara I., Dileep B. N., Ravi P. M.
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54. Determination of concentration of iodine in grass and cow milk by NAA methods using reactor neutrons
P. V. Geetha, N. Karunakara, Ujwal Prabhu, P. M. Ravi, J. Sudhakar , Nicy Ajith, K. K. Swain, R. Acharya, A. V. R. Reddy
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55. Concentration of ^{222}Rn in drinking water along coastal Kerala and evaluation of ingestion doses.
Primal D'Cunha, Y. Narayana, N. Karunakara, I. Yashodhara and Sudeep Kumar
Journal of Radiation Protection and Environment. Vol. 34 (3), 197-200, 2012.
56. Deposition based passive monitors for assigning radon, thoron inhalation doses for epidemiological studies.
Y. S. Mayya, R. Mishra, R. Prajith, A. C. Gole, B. K. Sapra, M. P. Chougankar, R. R. K. Nair, R. C. Ramola, N. Karunakara, P. K. M. Koya
Journal of Radiation Protection Dosimetry. Vol. 152 (1-3), 18-24, 2012.
57. Residential radon exposure in some areas of Bangalore city, India

- Ashok G V, Nagaiah N, Shiva Prasad N G, Ambika M R, Sathish L A, Karunakara. N.
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58. Soil to rice transfer factors for ^{226}Ra , ^{228}Ra , ^{210}Pb , ^{40}K and ^{137}Cs : a study on rice grown in India.
N. Karunakara, Chetan Rao, P. Ujwal, I. Yashodhara, Sudeep Kumara, P.M. Ravi
Journal of Environmental Radioactivity, Vol. 118, 80-92, 2013.
 59. Photo-neutron cross-section measurement in the 8 and 10 MeV bremsstrahlung induced reaction of ^{238}U
H. Naik, Rita Crasta, S. V. Suryanarayana, Ganesh Sanjeev, B. S. Shivashankar, H. G. Raj Prakash, N. Karunakara, H. M. Somashekarappa, M. Kumar, V. T. Nimje, K. C. Mittal, A. Goswami
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 60. Studies on soil to grass transfer factor (Fv) and grass to milk transfer coefficient (Fm) for cesium in Kaiga region.
N. Karunakara, P. Ujwal, I. Yashodhara, Chetan Rao, K. Sudeep Kumara, B.N. Dileep, P.M. Ravi. *Journal of Environmental Radioactivity*, Vol. 124, 101-112, 2013.
 61. Study of natural radioactivity and estimation of radiation dose in the environment of Tumkur, Karnataka, India.
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 63. Influence of physico-chemical parameters on the distribution of uranium in the ground water of Bangalore, India
Ningaiah Nagaiah, Gladys Mathews, Karthik Kumar Mysore Balakrishna, Ambika Madalakote Rajanna, Karunakara Naregundi
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 64. Study of concentration of uranium and physicochemical parameters in ground water and the ingested radiation dose to the population of Bangalore, South India
N Nagaiah, G Mathews, MBK Kumar, M R Ambika, N Karunakara
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 65. Analysis of ^{226}Ra , ^{232}Th and ^{40}K in the host rock and the soil samples and assessment of radiological risks for Mandya region, India
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66. Effect of humidity on thoron adsorption in charcoal bed
Sudeep Kumara K., Karunakara N., Yashodhara I., Sapra B. K., Sahoo B. K., Gaware J. J., Kanse S. D., and Mayya Y. S.
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67. Evaluation of radon adsorption characteristics of a coconut shell-based activated charcoal system for radon and thoron removal applications
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Journal of Environmental Radioactivity, 142, 87-95, 2015
68. Grass to cow milk transfer coefficient (F_m) for Iodine for equilibrium and emergency conditions.
Geetha P.V., Ujwal Prabhu., Yashodhara I., Sudeep Kumara K., Rupali Karpe, Ravi P.M., Nicy Ajith., Swain K.K., and Karunakara, N.
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69. Thoron Mitigation System based on charcoal bed for applications in thorium fuel cycle facilities (part 1): Development of theoretical models for design considerations. Sahoo B. K., Sudeep Kumara K., Karunakara. N., Gaware J. J., Sapra B K., Mayya Y. S.
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70. Thoron Mitigation System based on charcoal bed for applications in thorium fuel cycle facilities (part 2): Development, characterization, and performance evaluation
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72. Estimation of Air- to- Grass Mass Interception Factors for Iodine
N. Karunakara, P. Ujwal, I. Yashodhara, K. Sudeep Kumara, M.P.Mohan, K. Bhaskar Shenoy, P.V.Geetha, B.N. Dileep, Joshi P. James, P.M. Ravi
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73. Estimation of Air- to- Grass Mass Interception Factors for Iodine
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N. Nagaiah, M. B. Karthik Kumar, M. R. Ambika, N. Karunakara, B. C. Prabhakar
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75. Tritium concentration in ambient air around Kaiga Nuclear Power Plant
Srinivas S. Kamath, B. Narayana, Renita Shiny D'Souza, Rashmi Nayak , M. P. Mohan, B. N. Dileep, A. Baburajan, P. M. Ravi, N. Karunakara
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76. A new method for D₂O to H₂O leak detection and identification of leaky heat exchanger in PHWR by Cerenkov photon counting technique
Dileep Blangat, Ravi Pazhayathu Mana, Karunakara Nerugundi, Sangameshwar Managana, Raj Mangal Tripathi
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77. A study of temporal variations of ⁷Be and ²¹⁰Pb concentrations and their correlations with rainfall and other parameters in the South West Coast of India.
M.P. Mohan, Renita Shiny D'Souza, S. Rashmi Nayak, Srinivas S. Kamath, Trilochana Shetty, K. Sudeep Kumara, Y.S. Mayya, N. Karunakara
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80. Organically bound and tissue free tritium in rice plant grown around Tarapur Atomic Power Station, west coast of India.
A. Baburajan, R. H. Gaikwad, V. Sudheendran C. A. Shah, P. M. Ravi, N. Karunakara
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Debashis Mandal , Nishita Giri,, Pankaj Srivastava1 , Chinmay Sah, Ravi Bhusan, Karunakara Naregundi
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85. Optimization of a batch thermal combustion method using a tube furnace oxidation system (Pyrolyser) and LSC for Carbon-14 determination in environmental matrices
Renita Shiny D'Souza, S. Rashmi Nayak, Srinivas Kamath S., Bharath S., K. Arya Krishnan, M. P. Mohan, A. Dieguez, L. Agulló, I. Gómez-Martínez, F.J. Santos-Arevalo, R. García-Tenorio, P.M. Ravi, N. Karunakara
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Rashmi Nayak S., Renita Shiny D'Souza, Srinivas Kamath S., Mohan M. P., Bharath, Dileep B. N., Ravi P. M., Karunakara N. 2020.
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Rashmi Nayak S., Renita Shiny D'Souza, Srinivas Kamath S., Mohan M. P., Bharath, Ravi P. M., Karunakara N. 2020.. Appl. Radiat. Isot. 166,109390.
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N. Karunakara, P. Ujwal, I. Yashodhara, Chetan Rao, K. Sudeep Kumara, B.N. Dileep, P.M. Ravi.
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b. Papers presented in International Conferences (with proceedings)

1. Transportation of radionuclides from Western Ghat area to major river estuaries of coastal Karnataka-India
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