

Review of articles for FY3M class
J. Erhart

Scopus – **radioactivity OR radioactive decay**

Santostasi D., Malgieri M., Montagna P., Vitulo P.
An experiment on radioactive equilibrium and its modelling using the 'radioactive dice' approach
(2017) Physics Education, 52 (4), art. no. 045023

Al-Azmi D., Mustapha A.O., Karunakara N.
Radon adsorbed in activated charcoal-a simple and safe radiation source for teaching practical radioactivity in schools and colleges
(2012) Physics Education, 47 (4), pp. 471 - 475

Organtini G.
A device to safely perform experiments on radioactivity
(2018) Physics Education, 53 (6), art. no. 065018

Levy D.S.
Nuclear science and society: Social inclusion through scientific education
(2017) Physics Education, 52 (6), art. no. 064003

Taber K.S.
Wave goodbye to three types of radioactivity
(2010) Physics Education, 45 (1), pp. 11 - 13

Kordyasz A.J.
Measurement of radioactivity in buildings with a large-area silicon detector
(1996) Physics Education, 31 (3), pp. 143 - 149

Danson R.
Radioactive decay
(1982) Physics Education, 17 (5), art. no. 413, pp. 240

Murray A., Hart I.
The 'radioactive dice' experiment: Why is the 'half-life' slightly wrong?
(2012) Physics Education, 47 (2), pp. 197 - 201

Harrison R.M.
The role of the medical physicist in radiation protection in hospitals
(1989) Physics Education, 24 (4), art. no. 311, pp. 222 - 226

Green F.
Making a fish tank cloud chamber
(2012) Physics Education, 47 (3), pp. 338 - 341

Whalley M.
Depleted uranium: A contemporary controversy for the teaching of radioactivity
(2006) Physics Education, 41 (6), art. no. 005

Neel M.S.

Measuring and understanding radiation exposure on a commercial flight as a teaching tool
(2025) Physics Education, 60 (5), art. no. 055025

Seitz B., Campos Rivera N., Gray R., Powell A., Thomson F.

Radiation sensors for medical, industrial and environmental applications: How to engage with schools and the general public

(2018) Physics Education, 53 (1), art. no. 014001

De Cicco F., Balzano E., Limata B.N., Masullo M.R., Quarto M., Roca V., Sabbarese C., Pugliese M.

Radon measurement laboratories. An educational experience based on school and university cooperation

(2017) Physics Education, 52 (6), art. no. 065003

Hodgkinson J.A.

The use of a microcomputer as a multichannel analyser

(1985) Physics Education, 20 (1), art. no. 317, pp. 38 - 42

Tran N.C., Mai H.P., Nguyen V.B., Le A.D.

Developing high school students' experimental competence in radioactivity through problem-based learning

(2025) Physics Education, 60 (6), art. no. 065009

Bastos R.O., Boch L.B.

Modern projection of the old electroscope for nuclear radiation quantitative work and demonstrations

(2017) Physics Education, 52 (6), art. no. 064001

Al-Azmi D., Karunakara N., Mustapha A.O.

Teaching about natural background radiation

(2013) Physics Education, 48 (4), pp. 506 - 511

Bansal M., Bansal S., Kumar R.

Simulation of two-body decay of a particle and radioactive equilibrium states

(2021) Physics Education, 56 (5), art. no. 055007

Bastos R.O.

Practical measurements in radioactivity with the electroscope and the Tracker software

(2020) Physics Education, 55 (5), art. no. 055007

Barrett S.D.

Cloud chamber using Peltier cooling

(2024) Physics Education, 59 (4), art. no. 043010

Cardoso P.S.S., Nunes M.C.S., Silva G.P.S., Braghitti L.S., Trindade N.M.

Conceptions of high school students on atomic models, radiation and radioactivity

(2020) Physics Education, 55 (3), art. no. 035030

Wolff N., Griffiths J., Yerworth R.
Gamma Anna: A classroom demonstration for teaching the concepts of gamma imaging
(2017) Physics Education, 52 (1), art. no. 013001

Pallone A., Barnes P.
Beyond detection: Nuclear physics with a webcam in an educational setting
(2016) Physics Education, 51 (5), art. no. 054001

Stinner A.
Calculating the age of the earth and the sun
(2002) Physics Education, 37 (4), pp. 296 - 305

Camplin G.C., Henshaw D.L., Lock S., Simmons Z.
A national survey of background α -particle radioactivity
(1988) Physics Education, 23 (4), art. no. 307, pp. 212 - 217

Austen D., Brouwer W.
Radioactive balloons: Experiments on radon concentration in schools or homes
(1997) Physics Education, 32 (2), pp. 97 - 100

Neel M.S.
From reactor to patient: An example of radioactive diagnostics and effective half-life in thyroid cancer treatment
(2022) Physics Education, 57 (3), art. no. 035010

Simpson E.C., Shelley M.
Nuclear cartography: Patterns in binding energies and subatomic structure
(2017) Physics Education, 52 (6), art. no. 064002

Sahu S.
Model of radioactive decay using dice
(2011) Physics Education, 46 (3), pp. 255 - 256

Millar R., Klaassen K., Eijkelhof H.
Teaching about radioactivity and ionising radiation: An alternative approach
(1990) Physics Education, 25 (6), art. no. 310, pp. 338 - 342

Myers F.
Temporary personal radioactivity
(2012) Physics Teacher, 50 (8), pp. 499 - 501

Grove T., Masters M.
Mechanical simulation of a half-life
(2008) Physics Teacher, 46 (6), pp. 369 - 371

Lovatt I., Syed M.Q.
Why was Kelvin's estimate of the Earth's age wrong?
(2014) Physics Teacher, 52 (5), pp. 286 - 287

Ludwig-Petsch K., Kuhn J.

Shepard scale produced and analyzed with mobile devices
(2021) Physics Teacher, 59 (5), pp. 378 - 379

Black A., González-Espada W.J.
Visualizing Radioactive Decay in the Classroom: Dice vs. Centicubes
(2025) Physics Teacher, 63 (8), pp. 683 - 686

Brown T.
A simple example of radioactive dating
(2014) Physics Teacher, 52 (2), pp. 115 - 117

Swartz C.E.
Another radioactivity experiment reference
(2000) Physics Teacher, 38 (3), pp. 133

Baird B.
Radioactive decay and penetration depth - Why should there be an e?
(2014) Physics Teacher, 52 (4), pp. 234 - 235

Mak S.-Y.
Radioactivity experiments for project investigation
(1999) Physics Teacher, 37 (9), pp. 536 - 539

Steenstrup S., Gerward L.
Becquerel's discovery of radioactivity-A centenary
(1996) Physics Teacher, 34 (5), pp. 286 - 287

Riland C.A.
Environmental radioactivity, temperature, and precipitation
(1996) Physics Teacher, 34 (4), pp. 234 - 235

Kuhn J., Molz A., Gröber S., Frübis J.
iRadioactivity - possibilities and limitations for using smartphones and tablet PCs as
radioactive counters examples for studying different radioactive principles in physics
education
(2014) Physics Teacher, 52 (6), pp. 351 - 356

Lapp D.R.
Obtaining and investigating unconventional sources of radioactivity
(2010) Physics Teacher, 48 (2), pp. 90 - 92

Vidal X.C., Manzano R.C., Lema I.V.
An Experimental Analogy for Teaching the Law of Radioactive Decays in Secondary School
Classrooms
(2022) Physics Teacher, 60 (8), pp. 690 - 693

Boot R.
Uranium glass: A glowing alternative to conventional sources of radioactivity
(2017) Physics Teacher, 55 (2), pp. 76 - 78

Klein L., Kagan D.

"radio-active" learning: Visual representation of radioactive decay using dice
(2010) Physics Teacher, 48 (1), pp. 45 - 45

Jona K., Vondracek M.

A remote radioactivity experiment
(2013) Physics Teacher, 51 (1), pp. 25 - 27

Bevelacqua J.J.

Radiological dispersion devices and basic radiation science
(2010) Physics Teacher, 48 (5), pp. 302 - 305

Lincoln J.

Phosphorescence as an exponential decay
(2021) Physics Teacher, 59 (3), pp. 220 - 221

Jesse K.E.

Computer simulation of radioactive decay
(2003) Physics Teacher, 41 (9), pp. 542 - 543

Hobson A.

Teaching elementary particle physics, Part II
(2011) Physics Teacher, 49 (3), pp. 136 - 138