

Review of articles for FY2M class
J. Erhart

Scopus – **electric current**

Susman, K., Rihtaršič, D.

Teaching about electric current and resistance with a 'Blinker'
(2022) *Physics Education*, 57 (2), art. no. 025023

Hachmi, A., El-Moussaouy, A., Ouariach, A., Essaadaoui, R., Kerkour-El Miad, A.K.-E.,
Mommadi, O., El Hadi, M.

A playground activity as an analogy of electric current to help students overcome
misconceptions about electricity
(2021) *Physics Education*, 56 (6), art. no. 065020

Moon, S.J., Chen, Yu., Lee, J., Jung, P.K., Cho, Y., Kim, J.B.

Visualization of the transient current during electrostatic induction in a conductor
(2021) *Physics Education*, 56 (5), art. no. 055025

Burde, J.-P., Weatherby, T.S., Kronenberger, A.

An analogical simulation for teaching electric circuits: A rationale for use in lower secondary
school
(2021) *Physics Education*, 56 (5), art. no. 055010

Wu, G., Wu, A.Y.

Analogies between momentum current, electric current and entropy current
(2021) *Physics Education*, 56 (3), art. no. 035019

Hong, S.-I.

Electric eel electricity
(2020) *Physics Education*, 55 (5), art. no. 053001

Sanmathi, G.S., Vedavathi, P., Doddamani, V.H., Raveesha, K.H.

Displacement currents-class room demonstration
(2020) *Physics Education*, 55 (3), art. no. 033009

Grebenev, I.V., Lebedeva, O.V., Polushkina, S.V.

Research of emission current in fluorescent lamps
(2020) *Physics Education*, 55 (1), art. no. 015020

Moya, A.A.

An Arduino experiment to study charge-voltage relationships in capacitors
(2019) *Physics Education*, 54 (1), art. no. 015005

Green, M.

Impedance of iron-core electric coils
(2018) *Physics Education*, 53 (5), art. no. 055016

Ladino, L.A., Rondón, H.S.

In search of the dimensions of an incandescent light bulb filament

(2018) *Physics Education*, 53 (3), art. no. 035018

Harsha, N.R.S., Sreedevi, A., Prakash, A.
An unsolved electric circuit: A common misconception
(2015) *Physics Education*, 50 (5), pp. 568 - 572

Elizalde-Torres, J., González-Cardel, M., Vega-Murguía, E.J., Castillo-González, I.,
Rodríguez-Nava, M.
A conductive gel for the plotting of equipotential lines
(2015) *Physics Education*, 50 (4), art. no. 468, pp. 468 - 471

Ayrinhac, S.
Electric current solves mazes
(2014) *Physics Education*, 49 (4), pp. 443 - 446

Erhart, J.
Experiments to demonstrate piezoelectric and pyroelectric effects
(2013) *Physics Education*, 48 (4), pp. 438 - 447

Dvořák, L.
Bipolar transistors can detect charge in electrostatic experiments
(2012) *Physics Education*, 47 (4), pp. 434 - 438

Silva, A.A., Soares, R.
Voltage versus current, or the problem of the chicken and the egg
(2007) *Physics Education*, 42 (5), pp. 508 - 515

Taber, K.S., de Trafford, T., Quail, T.
Conceptual resources for constructing the concepts of electricity: The role of models,
analogies and imagination
(2006) *Physics Education*, 41 (2), pp. 155 - 160

Kamata, M., Hara, C.
An ammeter that indicates electric current by the movement of a light spot, and voltage by the
colour
(2005) *Physics Education*, 40 (2), pp. 155 - 159

Kamata, M., Shinbo, I., Tanaka, Y., Ishii, K., Horii, T.
An ammeter that indicates electric current by the movement of a spot of light
(2001) *Physics Education*, 36 (3), pp. 243 - 249

Carlton, K.
Teaching electric current and electrical potential
(1999) *Physics Education*, 34 (6), pp. 341 - 345

Greenslade, T.B.
Small Direct Current Electric Motors
(2023) *Physics Teacher*, 61 (4), pp. 279 - 283

- Beil, F., Thees, M., Kapp, S., Kuhn, J.
A Dynamic Electron Model for Teaching Electric Circuits
(2023) *Physics Teacher*, 61 (1), pp. 10 - 14
- Burde, J.-P., Weatherby, T.S., Wilhelm, T.
Putting Potential at the Core of Teaching Electric Circuits
(2022) *Physics Teacher*, 60 (5), pp. 340 - 343
- Oh, Y., Jang, T., Ha, H., Sohn, S.
Temporal Change of a Parallel Plate Capacitor's Voltage after Dielectric Insertion
(2022) *Physics Teacher*, 60 (2), pp. 124 - 127
- Mungan, C.E.
Surface Currents on the Plates of a Charging Capacitor
(2021) *Physics Teacher*, 59 (2), pp. 86 - 88
- Káčovský, P.
Electric Circuits as Seen by Thermal Imaging Cameras
(2019) *Physics Teacher*, 57 (9), pp. 597 - 599
- Cook, H., Dudley, S.C.
High Voltage and Franklin's Bells at Low Cost
(2019) *Physics Teacher*, 57 (5), pp. 290 - 292
- Neel, M.S.
Modeling the Electric Potential and Surface Charge Density Near Charged Thunderclouds
(2018) *Physics Teacher*, 56 (3), pp. 165 - 167
- Vollmer, M.
Teaching electric fences: The physics behind the Brainiac video
(2016) *Physics Teacher*, 54 (8), pp. 492 - 496
- Mungan, C.E.
Motor demonstration using a hand-cranked genecon
(2014) *Physics Teacher*, 52 (7), pp. 422 - 425
- Pfister, H.
The Sponge Resistor Model - A Hydrodynamic Analog to Illustrate Ohm's Law, the Resistor Equation $R = \rho \ell / A$, and Resistors in Series and Parallel
(2014) *Physics Teacher*, 52 (5), pp. 270 - 275
- Greenslade, T.B.
Measuring electrical current: The roads not taken
(2011) *Physics Teacher*, 49 (5), pp. 286 - 288
- Singh, V.
The electron runaround: Understanding electric circuit basics through a classroom activity
(2010) *Physics Teacher*, 48 (5), pp. 309 - 311

Kortemeyer, G.
Experimenting with constant current and voltage sources
(2010) *Physics Teacher*, 48 (1), pp. 68 - 69

Greenslade, T.B.
The hydraulic analogy for electric current
(2003) *Physics Teacher*, 41 (8), pp. 464 - 466

Livelybrooks, D.
"Feel" the difference between series and parallel circuits
(2003) *Physics Teacher*, 41 (2), pp. 102 - 103

Vreeland, P.
Analyzing simple circuits
(2002) *Physics Teacher*, 40 (2), pp. 99 - 100

Klittnick, A.F., Rickard, M.J.
Mystery motor demystified
(2001) *Physics Teacher*, 39 (3), pp. 174 - 175