

Review of articles for FY3M class
J. Erhart

Scopus – lenses OR mirror AND optics

Ward R.
Fresnel football
(2014) Physics Education, 49 (5), pp. 480 - 482

Siddiq N.A.
Teaching optics in Covid-19 pandemic through project-based learning
(2021) Physics Education, 56 (3), art. no. 035020

Lamberti V., De Luca R., Tortoriello F.S., D'Acunto I.
Laboratory Experience of Optical Reflection in a Circular Cavity
(2025) Challenges in Physics Education, Part F643, pp. 117 - 135

Adie G.
Using the laser pointer as a demonstration tool
(1997) Physics Education, 32 (3), pp. 190 - 191

Ivanov D., Nikolov S.
Optics demonstrations using cylindrical lenses
(2015) Physics Education, 50 (5), pp. 548 - 559

McGregor S.L., Pleasants J.
Shedding light on boundaries: Re-sequencing Snell's law instruction to first build conceptual understanding
(2022) Physics Education, 57 (5), art. no. 055018

Rodrigues M., Simeão Carvalho P.
Teaching optical phenomena with Tracker
(2014) Physics Education, 49 (6), pp. 671 - 677

Ferraro P.
Capriole (Somersaults)
(1998) Physics Education, 33 (6), pp. 392 - 395

Rode H., Friege G.
Nine optical black-box experiments for lower-secondary students
(2017) Physics Education, 52 (3), art. no. 035009

Wörner S., Becker S., Küchemann S., Scheiter K., Kuhn J.
Development and validation of the ray optics in converging lenses concept inventory
(2022) Physical Review Physics Education Research, 18 (2), art. no. 020131

Krumphals I.
The Mirascope: An explanation on a conceptual level
(2019) Physics Education, 54 (4), art. no. 045013

Baird W.H.

Helping the Moon take a selfie

(2014) Physics Education, 49 (5), pp. 486 - 488

Ogborn J.

Power of a lens: A quick and easy way into GCSE optics

(2005) Physics Education, 40 (1), pp. 15 - 16

Sharma A., Tong B., Axford N.R.

Fourier theory explanation for the sampling theorem demonstrated by a laboratory experiment

(1996) Physics Education, 31 (6), pp. 368 - 373

Özdemir E., Coramik M., Ürek H.

Examination of prisms via spectacle lenses

(2019) Physics Education, 54 (6), art. no. 065016

Santana A., Rodríguez Y., Gómez E.A.

Construction of ray diagrams in geometrical optics: A media-focused approach

(2012) Physics Education, 47 (6), pp. 715 - 720

Lohani V., Pathak P.

Image formation by two plane mirrors

(2023) Physics Education, 58 (3), art. no. 035004

Rosengrant D., Hensberry K.K.R., Navas K., Cacace R.M., Sharfun N., Matthews G.

Students' attitudes on Project STEMInAR: Augmented reality in Physics

(2025) Physics Education Research Conference Proceedings, pp. 374 - 379

Hong S.-I.

Seeing balancing toys graphically and gravitationally

(2016) Physics Education, 51 (1), art. no. 013003

Magalhães T.E.C., Ribeiro T.M.

Low-cost optical home-lab experiments

(2024) Physics Education, 59 (2), art. no. 025019

Onder Celikkanli N.

Measuring focal length via real images of virtual objects

(2026) Physics Education, 61 (3)

Flerackers E.L.M., Janssen H.J., Poulis J.A.

Combination of thin lenses - A computer oriented method

(1984) Physics Education, 19 (1), art. no. 313, pp. 24 - 25

Isik H.

Students' perceptual practices with real and virtual images

(2023) Physics Education, 58 (6), art. no. 065003

Feenstra L., Julia C., Logman P.

A Lego[®] Mach-Zehnder interferometer with an Arduino detector
(2021) Physics Education, 56 (2), art. no. 025014

Ribeiro J.L.P.
A plane mirror experiment inspired by a comic strip
(2016) Physics Education, 51 (1), art. no. 015011

Page R.L.
A cheap raybox suitable for group work
(1968) Physics Education, 3 (4), art. no. 313, pp. 215

Alborch A., Pandiella S., Benegas J.
Active learning of geometrical optics in high school: The ALOP approach
(2017) Physics Education, 52 (5), art. no. 055005

Cumming R.J., Pietrow A.G.M., Pietrow L., Cavallius M., Petit dit de la Roche D., Pietrow C., Schroetter I., Skan M.
Why every observatory needs a disco ball
(2024) Physics Education, 59 (2), art. no. 025012

Rivera-Ortega U.
Simple, innovative and attractive approach for geometrical optics, chromatic aberration and colour combination experiments
(2024) Physics Education, 59 (6), art. no. 065016

Spiecker H., Bitzenbauer P.
Phenomenological optics with self-made liquid lenses in the physics classroom
(2022) Physics Education, 57 (4), art. no. 045012

Winkelmann J., Römer D.
The 'thin lens' in the light of idealisations
(2023) Physics Education, 58 (6), art. no. 065024

Ruiz M.J.
Dioptres for a myopic eye from a photo
(2019) Physics Education, 54 (6), art. no. 065010

Rathi M., Shukla R.K., Tiwari P., Kushwaha G., Gupta P., Rana A., Garg A.
Innovative approach of teaching ray-optics in the classroom
(2024) Physics Education, 59 (5), art. no. 055019

González M.I.
Lens ray diagrams with a spreadsheet
(2018) Physics Education, 53 (3), art. no. 035016

Teichrew A., Erb R.
How augmented reality enhances typical classroom experiments: Examples from mechanics, electricity and optics
(2020) Physics Education, 55 (6), art. no. 065029

Mihas P.

Software for teaching refraction of light with the semicircle

(2016) Physics Education, 51 (6), art. no. 063005

Keeports D.

Reflections from a Fresnel lens

(2005) Physics Education, 40 (1), pp. 60 - 66

Ceuppens S., Deprez J., Dehaene W., De Cock M.

Tackling misconceptions in geometrical optics

(2018) Physics Education, 53 (4), art. no. 045020

Mak S.Y.

A multipurpose LED light source for optics experiments

(2004) Physics Teacher, 42 (9), pp. 550 - 552

Kwan A.M., Wardle D.A.

Covering lenses and covering images

(1998) Physics Teacher, 36 (5), pp. 314 - 315

Swaminathan S., Lamelas F.

Analysis of an unusual mirror in a 16th-century painting: A museum exercise for physics students

(2017) Physics Teacher, 55 (4), pp. 214 - 216

Layton W.

Rearview mirror dimming function

(2011) Physics Teacher, 49 (9), pp. 578

Maley T., Stoll W., Demir K.

Seeing an old lab in a new light: Transforming a traditional optics lab into full guided inquiry

(2013) Physics Teacher, 51 (6), pp. 368 - 371

Ribeiro J.L.P.

Myopia glasses and optical power estimation: An easy experiment

(2015) Physics Teacher, 53 (2), pp. 101 - 102

Sarkar S., Pal S.K., Chakrabarti S.

Determination of the Transverse Width and Distance of an Object with a Smartphone Camera

(2023) Physics Teacher, 61 (1), pp. 58 - 61

Graney C.M.

Is magnification consistent?: Why people from amateur astronomers to science's worst enemy have some basic physics wrong

(2010) Physics Teacher, 48 (7), pp. 475 - 477

Lancor R., Lancor B.

Digital Pinhole Camera

(2014) Physics Teacher, 52 (9), pp. 546 - 547

Huster M.E.

An improved box theater

(2011) Physics Teacher, 49 (6), pp. 356

De Weerd A.J., Hill S.

Reflections on handedness

(2004) Physics Teacher, 42 (5), pp. 275 - 279

Andereck B., Secrest S.

The magic magnifier

(2001) Physics Teacher, 39 (5), pp. 301 - 302

Yasuda K., Kim A., Cho H., Timofejev T., Walecki W.J., Klep J., Edelson A.S., Walecki A.S., Walecki E.S., Walecki P.S.

Specular reflection from rough surfaces revisited

(2016) Physics Teacher, 54 (7), pp. 394 - 396

Greenslade T.B., Jr.

The opaque projector: The inverse of the camera obscura

(2011) Physics Teacher, 49 (4), pp. 241

Kelly J.

Displaying All Object-Image Pairs of an Optical System

(2019) Physics Teacher, 57 (5), pp. 293 - 295

Ribeiro J.L.P.

Bed Prism Spectacles

(2018) Physics Teacher, 56 (1), pp. 18 - 19

Cordeiro C.M.B., Fujiwara E.

A Quantitative Experiment of Liquid Dispersion Using Merely a Partially Submerged Mirror and Sunlight

(2022) Physics Teacher, 60 (2), pp. 140 - 143

Razpet N., Kranjc T.

Partially covered lenses and additive color mixing

(2017) Physics Teacher, 55 (9), pp. 537 - 540

Colicchia G., Wiesner H.

Laser measurement of optical errors of the eye

(2006) Physics Teacher, 44 (8), pp. 512 - 514

Birriel J., Birriel I.

Rearview Mirror Rainbow: An Optics Investigation

(2020) Physics Teacher, 58 (3), pp. 164 - 166

Heikkinen L., Savinainen A., Saarelainen M.

Virtual ray tracing as a conceptual tool for image formation in mirrors and lenses

(2016) Physics Teacher, 54 (9), pp. 538 - 540

Huwe P., Field S.

Modern gravitational lens cosmology for introductory physics and astronomy students
(2015) Physics Teacher, 53 (5), pp. 266 - 270

DeWeerd A.J., Hill S.E.

The dizzying depths of the cylindrical mirror
(2005) Physics Teacher, 43 (2), pp. 90 - 92

Uysal A.

Determining the thickness and refractive index of a mirror
(2010) Physics Teacher, 48 (9), pp. 602 - 603

Ziegler M.

Overhead projector in a wastebasket
(2012) Physics Teacher, 50 (1), pp. 60

Ma S.-H., Wu J.-Y., Chiang C.-M.

Drawing the Light Paths at a Lens to Find Its Effective Focal Length and Principal Planes
(2022) Physics Teacher, 60 (7), pp. 591 - 593

Huang D.-W., Huang W.-N., Tseng H.-C.

Eyeglasses in the classroom
(2010) Physics Teacher, 48 (1), pp. 12 - 13

Isik H.

Using a Smartphone Camera's Manual Focusing in Distant Optics Lessons to Learn Lens and Mirror Images
(2024) Physics Teacher, 62 (6), pp. 501 - 504

Vannoni M., Molesini G., Sordini A., Straulino S.

A mechanical analogue of the refracting telescope
(2011) Physics Teacher, 49 (4), pp. 236 - 237

Gluck P.

Teaching image formation by a lens
(2006) Physics Teacher, 44 (4), pp. 206 - 210

Colicchia G., Hopf M., Wiesner H., Zollman D.

Pinhole glasses
(2008) Physics Teacher, 46 (1), pp. 26 - 28

Dvořák L.

A do-it-yourself optical bench
(2011) Physics Teacher, 49 (7), pp. 452 - 455

James M.C.

Optics demonstration with student eyeglasses using the inquiry method
(2011) Physics Teacher, 49 (6), pp. 357 - 359

Hinaus B., Veum M.
Modeling the compact disc read system in lab
(2009) Physics Teacher, 47 (7), pp. 446 - 449

Graumann H., Laue H.
Concave liquid-mirror experiments
(1998) Physics Teacher, 36 (1), pp. 28 - 31

Faust C., Ashman S.
An Affordable Self-Built Spectrometer for the Physics and Astronomy Classroom: A Useful Teaching Tool and Demonstration Instrument
(2021) Physics Teacher, 59 (8), pp. 617 - 620

Marx J., Mian S.
Using nonprinciple rays to form images in geometrical optics
(2015) Physics Teacher, 53 (8), pp. 497 - 499