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## Bibliography



## Bibliography

## PHYSICS

<ul style="list-style-type: none"> <li><b><u>Temperature measurement and thermal phenomena</u></b></li> </ul>	
EN	<p><b>BIBLIOGRAPHY:</b></p> <p>Hillel, D. (2004). Introduction to Environmental soil physics. Academic Press, San Diego, CA.</p> <p>Kim, S.H., Mims, C., &amp; Holmes, K.P. (2006). <i>An introduction to current trends and benefits of mobile wireless technology use in higher education</i>. AACE Journal, 14(1), 77-100.</p> <p>Mapping the Face uses the Infrared sensor  <a href="http://www.data-harvest.co.uk/news/dl_news_aut2006.pdf">http://www.data-harvest.co.uk/news/dl_news_aut2006.pdf</a></p> <p>Popov, O. (2006). <i>Developing outdoor activities and a website as resources to stimulate learning physics in teacher education</i>. Journal of Physics Teacher Education Online. Vo. 3., No. 3, March 2006, 18-24.  <a href="http://www.phy.ilstu.edu/jpteo">http://www.phy.ilstu.edu/jpteo</a></p> <p>Slingsby (2006). The future of school science lies outdoors. Journal of Biological Education. 40(2), p. 51-52.</p> <p>Sözbilir, M. (2003). A Review of Selected Literature on Students' Misconceptions of Heat and Temperature. Boğaziçi University Journal of Education, Vol.20(1) 2003. <a href="http://buje.boun.edu.tr/en/images/stories/Vol20/20-1-3.pdf">http://buje.boun.edu.tr/en/images/stories/Vol20/20-1-3.pdf</a></p> <p>Yeo, Shelley and Zadnik, Marjan (2001). Introductory thermal concept evaluation: assessing students' understanding. The physics teacher. Vol. 39. pp. 496-504</p>
<ul style="list-style-type: none"> <li><b><u>Measurement and estimation in outdoors environment</u></b></li> </ul>	
EN	<p><b>BIBLIOGRAPHY:</b></p> <p>Abd-El-Khalick, F., BouJaoude, S., Duschl, R., Lederman, N., Mamlok-Naaman, R., Hofstein, A., Niaz, M., Treagust, D., Tuan, H. (2004). <i>Inquiry in Science Education: International perspectives</i>. Science Education 88, 397-419</p> <p>National Research Council (2005). <i>America's lab report</i>. Washington, DC: National Academy Press.</p> <p>OECD (2003). Scientific Literacy. In The PISA 2003. <i>Assessment Framework – Mathematics, Reading, Science and Problem Solving Knowledge and Sills</i>. Accessed on the Internet at  <a href="http://www.pisa.oecd.org/dataoecd/38/29/33707226.pdf">http://www.pisa.oecd.org/dataoecd/38/29/33707226.pdf</a>.</p> <p>Sterling, Donna R.; Hall, Alfred L., II (2000). Preservice Middle and Secondary School Teachers' Misconceptions about Making Measurements Using Laboratory Instruments. ERIC document N: ED446902</p> <p>Tanner, D., Tanner, L. (1990). <i>History of the school curriculum</i>. Macmillan Publishing Company. New York.</p>
<ul style="list-style-type: none"> <li><b><u>Selecting a new television set</u></b></li> </ul>	

## Bibliography

• Επιλέγοντας μια νέα τηλεόραση	
EN	<p><b>BIBLIOGRAPHY:</b></p> <p>Baron J. (2000). Thinking and Deciding. Third Edition, Cambridge University Press.</p> <p>Bloom, B. S. (1956). Taxonomy of Educational Objectives: The Classification of educational goals, Susan Fauer Company, Inc., Chicago, pp. 201-207.</p> <p>Bruner, J. (1961). The act of discovery. <i>Harvard Educational Review</i>, 31, 21-32.</p> <p>Bray, J., Lee, J., Smith, L. L., and Yorks, L. <i>Collaborative Inquiry in Practice: Action, Reflection, and Making Meaning</i>. Thousand Oaks, Calif.: Sage, 2000.</p> <p>Carter, S. A., Le Grange, J. D., White, W., Boo, J., and Bell, P. (1997). “Dependence of the morphology of polymer dispersed liquid crystals on the UV polymerization process”, Lucent Technologies.</p> <p>Lemon, C. (2005). “Using Technology to Teach Content in a Student Teaching Experience (and as a First Year Teacher)”. <i>Contemporary Issues in Technology and Teacher Education</i>, 5(1), 73-76.</p> <p>Mayer, R. E. (1992). Thinking, Problem Solving, Cognition (2nd ed.). New York: Freeman.</p> <p>Menozzi, M., Lang, F., Naepflin, U., Zeller, C. and Krueger, H. (2001). “CRT versus LCD: Effects of refresh rate, display technology and background luminance in visual performance”. <i>Displays</i>, 22(3), 79-85.</p> <p>Plasma Facts and Myths, Panasonic Presents Advice from the Video Purist Perspective Commissioned by: Panasonic, 2004.</p> <p>Serway, R. (1990). Physics for Scientists and Engineers Young, H. and Freedman, R. (2000). University Physics, San Francisco: Addison – Wesley.</p> <p>Ziefle, M. A. (2001). Visual Performance and Eyestrain in Different Screen Technologies. Proceedings of the Human Factors and Ergonomics Society, 45th Annual Meeting, Volume 1, 262-266.</p> <p><b>Websites</b></p> <p>1 <a href="http://www.wikipedia.com">www.wikipedia.com</a></p> <p>2 <a href="http://www.physics4u.gr">www.physics4u.gr</a></p>
EL	<p><b>ΒΙΒΛΙΟΓΡΑΦΙΑ</b></p> <p>Baron J. (2000). Thinking and Deciding. Third Edition, Cambridge University Press.</p> <p>Bloom, B. S. (1956). Taxonomy of Educational Objectives: The Classification of educational goals, Susan Fauer Company, Inc., Chicago, pp. 201-207.</p> <p>Bruner, J. (1961). The act of discovery. <i>Harvard Educational Review</i>, 31, 21-32.</p> <p>Bray, J., Lee, J., Smith, L. L., and Yorks, L. <i>Collaborative Inquiry in Practice: Action, Reflection, and Making Meaning</i>. Thousand Oaks, Calif.: Sage, 2000.</p> <p>Carter, S. A., Le Grange, J. D., White, W., Boo, J., and Bell, P. (1997). “Dependence of the morphology of polymer dispersed liquid crystals on the UV polymerization process”, Lucent Technologies.</p> <p>Lemon, C. (2005). “Using Technology to Teach Content in a Student Teaching Experience (and as a First Year Teacher)”. <i>Contemporary Issues in Technology and Teacher Education</i>, 5(1), 73-76.</p> <p>Mayer, R. E. (1992). Thinking, Problem Solving, Cognition (2nd ed.). New York: Freeman.</p> <p>Menozzi, M., Lang, F., Naepflin, U., Zeller, C. and Krueger, H. (2001). “CRT versus LCD: Effects of refresh rate, display technology and background luminance in visual performance”. <i>Displays</i>, 22(3), 79-85.</p> <p>Plasma Facts and Myths, Panasonic Presents Advice from the Video Purist</p>

## Bibliography

	<p>Perspective Commissioned by: Panasonic, 2004.  Serway, R. (1990). Physics for Scientists and Engineers Young, H. and Freedman, R. (2000). University Physics, San Francisco: Addison – Wesley.  Ziefle, M. A. (2001). Visual Performance and Eyestrain in Different Screen Technologies. Proceedings of the Human Factors and Ergonomics Society, 45th Annual Meeting, Volume 1, 262-266.</p> <p><b>Ιστοσελίδες</b>  1 <a href="http://www.wikipedia.com">www.wikipedia.com</a>  2 <a href="http://www.physics4u.gr">www.physics4u.gr</a></p>
<ul style="list-style-type: none"> <li>• <b><u>Measuring the sound level in Trivale Park</u></b></li> <li>• <b><u>Măsurarea nivelului sunetului în Parcul Trivale</u></b></li> </ul>	
EN	<p><b>BIBLIOGRAPHY:</b></p> <ol style="list-style-type: none"> <li>1. <a href="http://www.epa.vic.gov.au/students/noise/default.asp">http://www.epa.vic.gov.au/students/noise/default.asp</a></li> <li>2. <a href="http://www.nonoise.org/aboutno.htm">http://www.nonoise.org/aboutno.htm</a></li> <li>3. <a href="http://www.worthing.gov.uk/.../NoiseControl/">www.worthing.gov.uk/.../NoiseControl/</a></li> <li>4. <a href="http://www.physicsclassroom.com/mmedia/waves/edl.html">http://www.physicsclassroom.com/mmedia/waves/edl.html</a></li> <li>5. <a href="http://www.clopote.ro">http://www.clopote.ro</a></li> <li>6. <a href="http://www.bicau.ro/static/standarde/astandarde.htm">http://www.bicau.ro/static/standarde/astandarde.htm</a></li> <li>7. <a href="http://www.scienceline.ro">http://www.scienceline.ro</a></li> <li>8. <a href="http://www.incasa.ro/tag/fonoabsorbant+acustica">http://www.incasa.ro/tag/fonoabsorbant+acustica</a></li> <li>9. <a href="http://www.centerstage.ro/sediu.php">http://www.centerstage.ro/sediu.php</a></li> <li>10. <a href="http://www.envi.ro">http://www.envi.ro</a></li> <li>11. <a href="http://www.isover.ro">http://www.isover.ro</a></li> <li>12. Botgros Ion, Bocancea Viorel, Iacubițchi Tatiana; Fizică // Matematică și Științe. Ghiduri metodologice. Grupul editorial Litera, Chișinău, 2000</li> <li>13. O.F. Călțun, “Didactica fizicii”, Editura Universității “Alexandru. Ioan Cuza”, Iași 2003</li> <li>14. L. Ciascai, Didactica fizicii, Editura Corint, București, 2001</li> <li>15. M. R. Garrett – Issues in science education: problem-solving, creativity and originality, International Journal of Science Education, 125-137, 1987</li> <li>16. M. Ionescu, I. Radu, Didactica modernă, Editura Dacia, Cluj Napoca, 2004</li> <li>17. Leahu, I Didactica fizicii – Modele de proiectare curriculară, E.D.P. București, 2006</li> <li>18. Radu, I.T. – Evaluarea în procesul didactic, Ed. Didactică și Pedagogică, București 2005,</li> <li>19. Schulman, L. S., Keisler, E. R., - Learning by discovery. A critical appraisal, Chicago, 1976</li> <li>20. Stoica, A. și Musteață, S. – Evaluarea rezultatelor școlare, Editura Lyceum, Chișinău 1997</li> <li>21. Wood, D., Bruner, J. S., - The role of tutoring in problem solving, Journal of Child Psychology and Psychiatry, 89-100, 1976</li> </ol>
RO	BIBLIOGRAFIE

## Bibliography

	<ol style="list-style-type: none"> <li>1. <a href="http://www.epa.vic.gov.au/students/noise/default.asp">http://www.epa.vic.gov.au/students/noise/default.asp</a></li> <li>2. <a href="http://www.nonoise.org/aboutno.htm">http://www.nonoise.org/aboutno.htm</a></li> <li>3. <a href="http://www.worthing.gov.uk/.../NoiseControl/">www.worthing.gov.uk/.../NoiseControl/</a></li> <li>4. <a href="http://www.physicsclassroom.com/mmedia/waves/edl.html">http://www.physicsclassroom.com/mmedia/waves/edl.html</a></li> <li>5. <a href="http://www.clopote.ro">http://www.clopote.ro</a></li> <li>6. <a href="http://www.bicau.ro/static/standarde/astandarde.htm">http://www.bicau.ro/static/standarde/astandarde.htm</a></li> <li>7. <a href="http://www.scienceline.ro">http://www.scienceline.ro</a></li> <li>8. <a href="http://www.incasa.ro/tag/fonoabsorbant+acustica">http://www.incasa.ro/tag/fonoabsorbant+acustica</a></li> <li>9. <a href="http://www.centerstage.ro/sediu.php">http://www.centerstage.ro/sediu.php</a></li> <li>10. <a href="http://www.envi.ro">http://www.envi.ro</a></li> <li>11. <a href="http://www.isover.ro">http://www.isover.ro</a></li> <li>12. Botgros Ion, Bocancea Viorel, Iacubițchi Tatiana; Fizică // Matematică și Științe. Ghiduri metodologice. Grupul editorial Litera, Chișinău, 2000</li> <li>13. O.F. Călțun, "Didactica fizicii", Editura Universității "Alexandru. Ioan Cuza", Iași 2003</li> <li>14. L. Ciascai, Didactica fizicii, Editura Corint, București, 2001</li> <li>15. M. R. Garrett – Issues in science education: problem-solving, creativity and originality, International Journal of Science Education, 125-137, 1987</li> <li>16. M. Ionescu, I. Radu, Didactica modernă, Editura Dacia, Cluj Napoca, 2004</li> <li>17. Leahu, I Didactica fizicii – Modele de proiectare curriculară, E.D.P. București, 2006</li> <li>18. Radu, I.T. – Evaluarea în procesul didactic, Ed. Didactică și Pedagogică, București 2005,</li> <li>19. Schulman, L. S., Keisler, E. R., - Learning by discovery. A critical appraisal, Chicago, 1976</li> <li>20. Stoica, A. și Musteață, S. – Evaluarea rezultatelor școlare, Editura Lyceum, Chișinău 1997</li> <li>21. Wood, D., Bruner, J. S., - The role of tutoring in problem solving, Journal of Child Psychology and Psychiatry, 89-100, 1976</li> </ol>
	<ul style="list-style-type: none"> <li>• <b><u>Mechanical Phenomena: Uniform Rectilinear Motion</u></b></li> <li>• <b><u>Fenomene mecanice: Mișcarea rectilinie uniformă</u></b></li> </ul>
<b>EN</b>	<p><b>BIBLIOGRAPHY:</b></p> <ol style="list-style-type: none"> <li>1. Curricula for the 6th and 7th forms</li> <li>2. Physics methodological guide</li> <li>3. Physics evaluation guide</li> <li>4. Methodics of teaching Physics</li> <li>5. Physics, the 4<sup>th</sup> form</li> <li>6. General Catalogue of Sciences 2007 Altay</li> <li>7. Science Achievement in Middle School Years, IEA - Boston College Chestnut Hill, 1996</li> <li>8. School Background with Science Achievement - Main Survey - Boston College Chestnut Hill, 2000</li> </ol>
<b>RO</b>	<p><b>BIBLIOGRAFIE:</b></p> <ol style="list-style-type: none"> <li>1. Curricula pentru clasele a VI-a și a VII-a</li> <li>2. Ghidul metodic pentru Fizică</li> <li>3. Ghidul de evaluare pentru Fizică</li> <li>4. Metodica predării fizicii</li> <li>5. Fizică, Clasa a IV-a</li> </ol>

## Bibliography

	<p>6. General Catalogue of Sciences 2007 Altay          7. Science Achievement in Middle School Years, IEA - Boston College Chestnut Hill, 1996          8. School Background with Science Achievement - Main Survey - Boston College Chestnut Hill, 2000</p>
	<ul style="list-style-type: none"> <li>• <b><u>Thermal effects of electromagnetic radiation</u></b></li> <li>• <b><u>Effetti Termici della Radiazione Elettromagnetica</u></b></li> <li>• <b><u>Efectele termice ale radiatiei electromagnetice</u></b></li> </ul>
<p>EN</p>	<p><b>BIBLIOGRAPHY:</b>          Andersson B. &amp; Kärrqvist C. (1983) How Swedish pupils, aged 12-15 years, understand light and its properties. <i>European Journal of Science Education</i>, 5(4), 387-402.          Anderson B. &amp; Wallin A. (2000) Students' understanding of the greenhouse effect, the societal consequences of reducing CO<sub>2</sub> emissions and problem of ozone layer depletion. <i>International Journal of Science Education</i>, 37(10), 1096-1111.          Besson U., Borghi L., De Ambrosis A. &amp; Mascheretti P. (2007) Aspects multiples dans l'élaboration et l'expérimentation d'une séquence d'enseignement sur le frottement : analyse historique du contenu, parcours conceptuels, modèles explicatifs, formation des enseignants. <i>Actes des 5èmes rencontres de l'ARDIST</i>, AVL Diffusion, Montpellier, France, <a href="http://ardist.aixmrs.iufm.fr/actes/2007/actes.pdf">http://ardist.aixmrs.iufm.fr/actes/2007/actes.pdf</a>, pp. 41-48          Boyes E. &amp; Stanisstreet M. (1993) The greenhouse effect: Children's perception of causes, consequences and cures. <i>International Journal of Science Education</i>, 15(5), 531-552.          Chauvet, F. 1993, Conception et premiers essais d'une séquence sur la couleur, <i>Bulletin de l'Union des Physiciens</i>, 750, pp 1-28.          Chauvet, F. (1996). Teaching colour: designing and evaluation of a sequence, <i>European Journal of Teacher Education</i>, vol.19, n°2, pp 119-134.          Erickson G. &amp; Tiberghien A. (1985) Heat and temperature. In Driver R., Guesne E. &amp; Tiberghien A. (Eds) <i>Children's ideas in science</i>, Open University Press, pp. 52-84.          Guesne E. (1985) Light. In Driver R., Guesne E. &amp; Tiberghien A. (Eds) <i>Children's ideas in science</i>, Open University Press, pp.10-32.          Hirn C. &amp; Viennot L. (2000) Transformation of Didactic Intention by Teachers: the case of</p>

## Bibliography

- Geometrical Optics in Grade 8 in France. *International Journal of Science Education*, 22 (4), 357-384.
- Kaminski, W. 1989. Conceptions des enfants et des autres sur la lumière, *Bulletin de l'Union des Physiciens*, 716, pp. 973-996.
- University of Pavia. Outlab Project. *Thermal effects of e.m. radiation* 10
- Kattmann U., Duit R., Gropengießer H. & Komorek M. (1997) Das Modell der Didaktischen Rekonstruktion – Ein theoretischer Rahmen für naturwissenschaftsdidaktische Forschung und Entwicklung. *Zeitschrift für Didaktik der Naturwissenschaften*, 3 (3), 3–18.
- Klaassen C.W.J.M. (1995) *A problem posing approach to teaching the topic of radioactivity*, Utrecht: CD-β Press. [www.library.uu.nl/digiarchief/dip/diss/01873016/inhoud.htm](http://www.library.uu.nl/digiarchief/dip/diss/01873016/inhoud.htm)
- Koosimile A.T. (2004) Out-of-school experiences in science classes: problems, issues and challenges in Botswana. *International Journal of Science Education*, 26 (4), 483-496.
- Leach J., Ametller J., Hind A., Lewis J. & Scott P. (2005) Designing and evaluating short science teaching sequences: improving student learning. In Boersma K. et al. (Eds) *Research and the Quality of Science Education*, Springer, Dordrecht NL, p. 209-220.
- Lester B.T., Ma Li, Lee O. & Lambert J. (2006) Social Activism in Elementary Science Education: A science; technology, and society approach to teach global warming. *International Journal of Science Education*, 28(4), 315-339.
- Lijnse P. & Klaassen K. (2004) Didactical structures as an outcome of research on teaching-learning sequences? *International Journal of Science Education*, 26 (5), 537-554.
- Lijnse P. L., Eijkelhof H., Klaassen C. & Scholte R. (1990) Pupils' and mass-media ideas about radioactivity, *International Journal of Science Education*, 12 (1), 67 – 78.
- Méheut M. & Psillos D. (2004) Teaching-learning sequences: aims and tools for science education research. *International Journal of Science Education*, 26 (5), 515-535.
- Millar R. (1994) School students' understanding of key ideas about radioactivity and ionizing radiation. *Public Understanding of Science*, 3(1).
- Millar R., Klaassen K. & Eijkelhof H. (1990) Teaching about radioactivity and ionising radiation: an

**Bibliography**

	<p>alternative approach. <i>Physics Education</i>, 25, 338-342.</p> <p>Österlind K. (2005) Concept formation in environmental education: 14-year olds' work on the intensified greenhouse effect and the depletion of the ozone layer. <i>International Journal of Science Education</i>, 27(8), 891-908.</p> <p>Pinto, R. (2005). Introducing Curriculum Innovations in Science: Identifying Teachers' Transformations and the Design of Related Teacher Education. <i>Science Education</i>, 89, 1-12.</p> <p>Popper K. (1973) The rationality of scientific revolutions. Republished in <i>The myth of the framework</i>, Routledge, London, 1994, pp. 1-32.</p> <p>Psillos D., Spyrtou A. &amp; Kariotoglou P. (2005) Science teacher education: issues and proposals. In Boersma K. et al. (Eds) <i>Research and the Quality of Science Education</i>, Springer, Dordrecht, The Netherlands, p. 119-128.</p> <p>Redfors A. (2001) University physics students' use of models in explanations of phenomena involving interaction between metals and electromagnetic radiation. <i>International Journal of Science Education</i>, 23 (21), 1283-1301.</p> <p>University of Pavia. Outlab Project. <i>Thermal effects of e.m. radiation</i></p> <p>Rego F. &amp; Peralta L. (2006) Portuguese students' knowledge of radiation physics, <i>Physics Education</i>, 41(3), 259-262.</p> <p>Rye J.A., Rubba P.A. &amp; Wiesenmayer R.L. (1997) An investigation of middle school students' alternative conception of global warning. <i>International Journal of Science Education</i>, 19(5), 527-551.</p> <p>Shayer M. &amp; Wylam H. (1981) The Development of the Concepts of Heat and Temperature in 10-13 years-olds. <i>Journal of Research in Science Teaching</i>, 5, 419-434.</p> <p>Stavy R. &amp; Berkovitz B. (1980) Cognitive conflict as a basis for teaching quantitative aspects of the concept of temperature. <i>Science Education</i>, 64 (5), 679-692.</p> <p>Tytler R. (2005) School Innovation in Science: change, culture, complexity. In Boersma K. et al. (Eds) <i>Research and the Quality of Science Education</i>, Dordrecht: Springer, p.89-106.</p>
IT	<p><b>BIBLIOGRAFIA:</b></p> <p>Andersson B. &amp; Kärrqvist C. (1983) How Swedish pupils, aged 12-15 years, understand light and its properties. <i>European Journal of Science Education</i>, 5(4), 387-402.</p> <p>Anderson B. &amp; Wallin A. (2000) Students' understanding of the greenhouse effect, the</p>

### Bibliography

- societal consequences of reducing CO<sub>2</sub> emissions and problem of ozone layer depletion. *International Journal of Science Education*, 37(10), 1096-1111.
- Besson U., Borghi L., De Ambrosis A. & Mascheretti P. (2007) Aspects multiples dans l'élaboration et l'expérimentation d'une séquence d'enseignement sur le frottement : analyse historique du contenu, parcours conceptuels, modèles explicatifs, formation des enseignants. *Actes des 5èmes rencontres de l'ARDIST*, AVL Diffusion, Montpellier, France, <http://ardist.aixmrs.iufm.fr/actes/2007/actes.pdf>, pp. 41-48
- Boyes E. & Stanisstreet M. (1993) The greenhouse effect: Children's perception of causes, consequences and cures. *International Journal of Science Education*, 15(5), 531-552.
- Chauvet, F. 1993, Conception et premiers essais d'une séquence sur la couleur, *Bulletin de l'Union des Physiciens*, 750, pp 1-28.
- Chauvet, F. (1996). Teaching colour: designing and evaluation of a sequence, *European Journal of Teacher Education*, vol.19, n°2, pp 119-134.
- Erickson G. & Tiberghien A. (1985) Heat and temperature. In Driver R., Guesne E. & Tiberghien A. (Eds) *Children's ideas in science*, Open University Press, pp. 52-84.
- Guesne E. (1985) Light. In Driver R., Guesne E. & Tiberghien A. (Eds) *Children's ideas in science*, Open University Press, pp.10-32.
- Hirn C. & Viennot L. (2000) Transformation of Didactic Intention by Teachers: the case of Geometrical Optics in Grade 8 in France. *International Journal of Science Education*, 22 (4), 357-384.
- Kaminski, W. 1989. Conceptions des enfants et des autres sur la lumière, *Bulletin de l'Union des Physiciens*, 716, pp. 973-996.
- Kattmann U., Duit R., Gropengießer H. & Komorek M. (1997) Das Modell der Didaktischen Rekonstruktion – Ein theoretischer Rahmen für naturwissenschaftsdidaktische Forschung und Entwicklung. *Zeitschrift für Didaktik der Naturwissenschaften*, 3 (3), 3–18.
- Klaassen C.W.J.M. (1995) *A problem posing approach to teaching the topic of radioactivity*, Utrecht: CD-β Press. [www.library.uu.nl/digiarchief/dip/diss/01873016/inhoud.htm](http://www.library.uu.nl/digiarchief/dip/diss/01873016/inhoud.htm)
- Koosimile A.T. (2004) Out-of-school experiences in science classes: problems, issues and challenges in Botswana. *International Journal of Science Education*, 26 (4), 483-496.
- Università di Pavia – Progetto Outlab. *Effetti termici della radiazione elettromagnetica* 11
- Leach J., Ametller J., Hind A., Lewis J. & Scott P. (2005) Designing and evaluating short science teaching sequences: improving student learning. In Boersma K. et al. (Eds) *Research and the Quality of Science Education*, Springer, Dordrecht NL, p. 209-220.
- Lester B.T., Ma Li, Lee O. & Lambert J. (2006) Social Activism in Elementary Science Education: A

## Bibliography

- science; technology, and society approach to teach global warming. *International Journal of Science Education*, 28(4), 315-339.
- Lijnse P. & Klaassen K. (2004) Didactical structures as an outcome of research on teaching-learning sequences? *International Journal of Science Education*, 26 (5), 537-554.
- Lijnse P. L., Eijkelhof H., Klaassen C. & Scholte R. (1990) Pupils' and mass-media ideas about radioactivity, *International Journal of Science Education*, 12 (1), 67 – 78.
- Méheut M. & Psillos D. (2004) Teaching-learning sequences: aims and tools for science education research. *International Journal of Science Education*, 26 (5), 515-535.
- Millar R. (1994) School students' understanding of key ideas about radioactivity and ionizing radiation. *Public Understanding of Science*, 3(1).
- Millar R., Klaassen K. & Eijkelhof H. (1990) Teaching about radioactivity and ionising radiation: an alternative approach. *Physics Education*, 25, 338-342.
- Österlind K. (2005) Concept formation in environmental education: 14-year olds' work on the intensified greenhouse effect and the depletion of the ozone layer. *International Journal of Science Education*, 27(8), 891-908.
- Pinto, R. (2005). Introducing Curriculum Innovations in Science: Identifying Teachers' Transformations and the Design of Related Teacher Education. *Science Education*, 89, 1-12.
- Popper K. (1973) The rationality of scientific revolutions. Republished in *The myth of the framework*, Routledge, London, 1994, pp. 1-32. Ed. It. *Il mito della cornice*, Il Mulino, 1995, pp.17-55.
- Psillos D., Spyrtou A. & Kariotoglou P. (2005) Science teacher education: issues and proposals. In Boersma K. et al. (Eds) *Research and the Quality of Science Education*, Springer, Dordrecht, The Netherlands, p. 119-128.
- Redfors A. (2001) University physics students' use of models in explanations of phenomena involving interaction between metals and electromagnetic radiation. *International Journal of Science Education*, 23 (21), 1283-1301.
- Rego F. & Peralta L. (2006) Portuguese students' knowledge of radiation physics, *Physics Education*, 41(3), 259-262.
- Rye J.A., Rubba P.A. & Wiesenmayer R.L. (1997) An investigation of middle school students' alternative conception of global warning. *International Journal of Science Education*, 19(5), 527-551.
- Shayer M. & Wylam H. (1981) The Development of the Concepts of Heat and Temperature in 10-13 years-olds. *Journal of Research in Science Teaching*, 5, 419-434.
- Università di Pavia – Progetto Outlab. *Effetti termici della radiazione elettromagnetica* 12
- Stavy R. & Berkovitz B. (1980) Cognitive conflict as a basis for teaching quantitative aspects of the

## Bibliography

	<p>concept of temperature. <i>Science Education</i>, 64 (5), 679-692.</p> <p>Tytler R. (2005) School Innovation in Science: change, culture, complexity. In Boersma K. et al. (Eds) <i>Research and the Quality of Science Education</i>, Dordrecht: Springer, p.89-106.</p>
RO	<p><b>Referințe</b></p> <p>Andersson B. &amp; Karrqvist C. (1983) How Swedish pupils, aged 12-15 years, understand light and its properties. <i>European Journal of Science Education</i>, 5(4), 387-402.</p> <p>Anderson B. &amp; Wallin A. (2000) Students' understanding of the greenhouse effect, the societal consequences of reducing CO2 emissions and problem of ozone layer depletion. <i>International Journal of Science Education</i>, 37(10), 1096-1111.</p> <p>Besson U., Borghi L., De Ambrosis A. &amp; Mascheretti P. (2007) Aspects multiples dans l'elaboration et l'experimentation d'une sequence d'enseignement sur le frottement : analyse historique du contenu, parcours conceptuels, modeles explicatifs, formation des enseignants. <i>Actes des 5emes rencontres de l'ARDIST</i>, AVL Diffusion, Montpellier, France, <a href="http://ardist.aixmrs.iufm.fr/actes/2007/actes.pdf">http://ardist.aixmrs.iufm.fr/actes/2007/actes.pdf</a>, pp. 41-48</p> <p>Boyes E. &amp; Stanisstree M. (1993) The greenhouse effect: Children's perception of causes, consequences and cures. <i>International Journal of Science Education</i>, 15(5), 531-552.</p> <p>Chauvet, F. 1993, Conception et premiers essais d'une sequence sur la couleur, <i>Bulletin de l'Union des Physiciens</i>, 750, pp 1-28.</p> <p>Chauvet, F. (1996). Teaching colour: designing and evaluation of a sequence, <i>European Journal of Teacher Education</i>, vol.19, n°2, pp 119-134.</p> <p>Erickson G. &amp; Tiberghien A. (1985) Heat and temperature. In Driver R., Guesne E. &amp; Tiberghien A. (Eds) <i>Children's ideas in science</i>, Open University Press, pp. 52-84.</p> <p>Guesne E. (1985) Light. In Driver R., Guesne E. &amp; Tiberghien A. (Eds) <i>Children's ideas in science</i>, Open University Press, pp.10-32.</p> <p>Hirn C. &amp; Viennot L. (2000) Transformation of Didactic Intention by Teachers: the case of Geometrical Optics in Grade 8 in France. <i>International Journal of Science Education</i>, 22 (4),</p>

## Bibliography

- 357-384.  
Kaminski, W. 1989. Conceptions des enfants et des autres sur la lumière,  
*Bulletin de l'Union des  
Physiciens*, 716, pp. 973-996.
- Kattmann U., Duit R., Gropengieser H. & Komorek M. (1997) Das Modell der  
Didaktischen  
Rekonstruktion – Ein theoretischer Rahmen für naturwissenschaftsdidaktische  
Forschung und  
Entwicklung. *Zeitschrift für Didaktik der Naturwissenschaften*, 3 (3), 3–18.
- Klaassen C.W.J.M. (1995) *A problem posing approach to teaching the  
topic of radioactivity*,  
Utrecht: CD-β Press. [www.library.uu.nl/  
digiarchief/dip/diss/01873016/inhoud.htm](http://www.library.uu.nl/digiarchief/dip/diss/01873016/inhoud.htm)
- Koosimile A.T. (2004) Out-of-school experiences in science classes: problems,  
issues and  
challenges in Botswana. *International Journal of Science Education*, 26 (4),  
483-496.
- Leach J., Ametller J., Hind A., Lewis J. & Scott P. (2005) Designing and  
evaluating short  
science teaching sequences: improving student learning. In Boersma K. et al.  
(Eds) *Research  
and the Quality of Science Education*, Springer, Dordrecht NL, p. 209-220.
- Lester B.T., Ma Li, Lee O. & Lambert J. (2006) Social Activism in Elementary  
Science  
Education: A science, technology, and society approach to teach global  
warming. *International  
Journal of Science Education*, 28(4), 315-339.
- Lijnse P. & Klaassen K. (2004) Didactical structures as an outcome of research  
on teaching/learning  
sequences? *International Journal of Science Education*, 26 (5), 537-554.
- Lijnse P. L., Eijkelhof H., Klaassen C. & Scholte R. (1990) Pupils' and mass-  
media ideas about  
radioactivity, *International Journal of Science Education*, 12 (1), 67 – 78.
- Meheut M. & Psillos D. (2004) Teaching-learning sequences: aims and tools for  
science  
education research. *International Journal of Science Education*, 26 (5), 515-  
535.
- Millar R. (1994) School students' understanding of key ideas about radioactivity  
and ionizing  
radiation. *Public Understanding of Science*, 3(1).
- Millar R., Klaassen K. & Eijkelhof H. (1990) Teaching about radioactivity and  
ionising

## Bibliography

- radiation: an alternative approach. *Physics Education*, 25, 338-342.
- Osterlind K. (2005) Concept formation in environmental education: 14-year olds' work on the intensified greenhouse effect and the depletion of the ozone layer. *International Journal of Science Education*, 27(8), 891-908.
- Pinto, R. (2005). Introducing Curriculum Innovations in Science: Identifying Teachers' Transformations and the Design of Related Teacher Education. *Science Education*, 89, 1-12.
- Popper K. (1973) The rationality of scientific revolutions. Republished in *The myth of the framework*, Routledge, London, 1994, pp. 1-32.
- Psillos D., Spyrtou A. & Kariotoglou P. (2005) Science teacher education: issues and proposals. In Boersma K. et al. (Eds) *Research and the Quality of Science Education*, Springer, Dordrecht, The Netherlands, p. 119-128.
- Redfors A. (2001) University physics students' use of models in explanations of phenomena involving interaction between metals and electromagnetic radiation. *International Journal of Science Education*, 23 (21), 1283-1301.
- Rego F. & Peralta L. (2006) Portuguese students' knowledge of radiation physics, *Physics Education*, 41(3), 259-262.
- Rye J.A., Rubba P.A. & Wiesenmayer R.L. (1997) An investigation of middle school students' alternative conception of global warming. *International Journal of Science Education*, 19(5), 527- 551.
- Shayer M. & Wylam H. (1981) The Development of the Concepts of Heat and Temperature in 10-13 years-olds. *Journal of Research in Science Teaching*, 5, 419-434.
- Stavy R. & Berkovitz B. (1980) Cognitive conflict as a basis for teaching quantitative aspects of the concept of temperature. *Science Education*, 64 (5), 679-692.
- Tytler R. (2005) School Innovation in Science: change, culture, complexity. In Boersma K. et al. (Eds) *Research and the Quality of Science Education*, Dordrecht: Springer,

## Bibliography

	p.89-106.
	<ul style="list-style-type: none"> <li>• <u>The greenhouse effect</u></li> <li>• <u>L'effetto serra</u></li> </ul>
EN	<p>Anderson B. &amp; Wallin A. (2000) Students' understanding of the greenhouse effect, the societal consequences of reducing CO<sub>2</sub> emissions and problem of ozone layer depletion. <i>Journal of Research in Science Teaching</i>, 37 (10), 1096-1111.</p> <p>Boyes E. &amp; Stanisstreet M. (1993) The greenhouse effect: Children's perception of causes, consequences and cures. <i>International Journal of Science Education</i>, 15 (5), 531-552.</p> <p>Browne K.P &amp; Laws P.W. (2003) Exploring the green hose effect through physics-oriented activities. <i>Physics Education</i>, 38 (2), 115-122.</p> <p>Knox R.S. (1999) Physical aspects of the greenhouse effect and global warming. <i>Am. J. Phys.</i> 67 (12), 1227-1238.</p> <p>Lester B.T., Ma Li, Lee O. &amp; Lambert J. (2006) Social Activism in Elementary Science Education: A science, technology, and society approach to teach global warming. <i>International Journal of Science Education</i>, 28(4), 315-339.</p> <p>Österlind K. (2005) Research Report. Concept formation in environmental education: 14-year olds' work on the intensified greenhouse effect and the depletion of the ozone layer. <i>International Journal of Science Education</i>, 27 (8), 891-908.</p> <p>Pettersen I.H., Williams G. (2004) Overhead projector doubles as a classroom "rainbow machine". <i>Physics Education</i>, 39(6), 463.</p> <p>Rye J.A., Rubba P.A. &amp; Wiesenmayer R.L. (1997) An investigation of middle school students' alternative conception of global warning. <i>International Journal of Science Education</i>, 19 (5), 527-551.</p>
IT	<p><b>Bibliografia</b></p> <p>Anderson B. &amp; Wallin A. (2000) Students' understanding of the greenhouse effect, the societal consequences of reducing CO<sub>2</sub> emissions and problem of ozone layer depletion. <i>Journal of Research in Science Teaching</i>, 37 (10), 1096-1111.</p> <p>Boyes E. &amp; Stanisstreet M. (1993) The greenhouse effect: Children's perception of causes, consequences and cures. <i>International Journal of Science Education</i>, 15 (5), 531-552.</p> <p>Browne K.P &amp; Laws P.W. (2003) Exploring the green hose effect through physics-oriented</p>

### Bibliography

	<p>activities. <i>Physics Education</i>, 38 (2), 115-122.</p> <p>Knox R.S. (1999) Physical aspects of the greenhouse effect and global warming. <i>Am. J. Phys.</i> 67 (12), 1227-1238.</p> <p>Lester B.T., Ma Li, Lee O. &amp; Lambert J. (2006) Social Activism in Elementary Science Education: A science; technology, and society approach to teach global warming. <i>International Journal of Science Education</i>, 28(4), 315-339.</p> <p>Österlind K. (2005) Research Report. Concept formation in environmental education: 14-year olds' work on the intensified greenhouse effect and the depletion of the ozone layer. <i>International Journal of Science Education</i>, 27 (8), 891-908.</p> <p>Pettersen I.H., Williams G. (2004) Overhead projector doubles as a classroom "rainbow machine". <i>Physics Education</i>, 39(6), 463.</p> <p>Rye J.A., Rubba P.A. &amp; Wiesenmayer R.L. (1997) An investigation of middle school students' alternative conception of global warning. <i>International Journal of Science Education</i>, 19 (5), 527-551.</p>
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### Chemistry

- **Choosing the best bottled water**
- **Ποιο εμφιαλωμένο νερό θα διάλεγε;**
- **Alegerea celei mai bune ape îmbuteliate**
- **Scelta Della Migliore Acqua In Bottiglia**

EN	<p>Baron J. (2000). Thinking and Deciding. Third Edition, Cambridge University Press.</p> <p>Driver, R., Newton, P. and Osborne, J. (2000). Establishing the norms of scientific argumentation in classroom. <i>Science Education</i>. 84 (3), 287-312.</p> <p>Fisher, T. (2002). Theory into practice: Webquests in Geography, Geographical Association, Sheffield, UK.</p> <p>Kolstø, S. D. (2001). <u>'To trust or not to trust, ...' - pupils' ways of judging information encountered in a socio-scientific issue</u>. <i>International Studies in Science Education</i>, 23 (9) 877-901.</p> <p>Kubicek P. J (2005). Inquiry-based learning, the nature of science, and computer technology: New possibilities in science education. <i>Canadian Journal of Learning and Technology</i>, 31 (1).</p> <p>McDermott and the Physics Education Group at the University of Washington (1996). <i>Physics by Inquiry Volume II</i>. Wiley : New York.</p> <p>Polman, J.L. (1998). Why train 'little scientists': The purposes and practices of science education in today's democracy. Paper presented at the Annual Meeting of the American Educational Research Association, San Diego, CA.</p> <p>Websites 1 <a href="http://webquest.org/index.php">http://webquest.org/index.php</a></p>
----	--

## Bibliography

	<p>2 <a href="http://www.fao.org/">http://www.fao.org/</a></p> <p>3 <a href="http://www.fda.gov/">http://www.fda.gov/</a></p> <p>4 <a href="http://www.efsa.europa.eu/EFSA/efsa_locale-1178620753812_home.htm">http://www.efsa.europa.eu/EFSA/efsa_locale-1178620753812_home.htm</a></p> <p>5 <a href="http://www.who.int/en/">http://www.who.int/en/</a></p> <p>6 <a href="http://www.bottledwater.org">http://www.bottledwater.org</a></p> <p>7</p>
<b>EL</b>	<p><b>ΒΙΒΛΙΟΓΡΑΦΙΑ</b></p> <p>Baron J. (2000). Thinking and Deciding. Third Edition, Cambridge University Press.</p> <p>Driver, R., Newton, P. and Osborne, J. (2000). Establishing the norms of scientific argumentation in classroom. Science Education. 84 (3), 287-312.</p> <p>Dodge Bernie (1998). Some Thoughts About WebQuests, San Diego State University.</p> <p>Fisher, T. (2002). Theory into practice: Webquests in Geography, Geographical Association, Sheffield, UK.</p> <p>Kolstø, S. D. (2001). 'To trust or not to trust, ...' - pupils' ways of judging information encountered in a socio-scientific issue. International Studies in Science Education, 23 (9) 877-901.</p> <p>Kubicek P. J (2005). Inquiry-based learning, the nature of science, and computer technology: New possibilities in science education. Canadian Journal of Learning and Technology, 31 (1).</p> <p>McDermott and the Physics Education Group at the University of Washington (1996). Physics by Inquiry Volume II. Wiley : New York.</p> <p>Polman, J.L. (1998). Why train 'little scientists': The purposes and practices of science education in today's democracy. Paper presented at the Annual Meeting of the American Educational Research Association, San Diego, CA.</p> <p><b>Ιστοσελίδες</b></p> <p>1 <a href="http://webquest.org/index.php">http://webquest.org/index.php</a></p> <p>2 <a href="http://www.fao.org/">http://www.fao.org/</a></p> <p>3 <a href="http://www.fda.gov/">http://www.fda.gov/</a></p> <p>4 <a href="http://www.efsa.europa.eu/EFSA/efsa_locale-1178620753812_home.htm">http://www.efsa.europa.eu/EFSA/efsa_locale-1178620753812_home.htm</a></p> <p>5 <a href="http://www.who.int/en/">http://www.who.int/en/</a></p> <p>6 <a href="http://www.bottledwater.org/">http://www.bottledwater.org/</a></p>
<b>RO</b>	<p><b>BIBLIOGRAFIE</b></p> <p>Baron J. (2000). Thinking and Deciding. Third Edition, Cambridge University Press. Driver, R., Newton, P. and Osborne, J. (2000). Establishing the norms of scientific argumentation in classroom. Science Education. 84 (3), 287-312.</p> <p>Fisher, T. (2002). Theory into practice: Webquests in Geography, Geographical Association, Sheffield, UK. Kolsto, S. D. (2001). 'To trust or not to trust, ...' - pupils' ways of judging information encountered in a socio-scientific issue. International Studies in Science Education, 23 (9) 877-901.</p> <p>Kubicek P. J (2005). Inquiry-based learning, the nature of science, and computer technology:</p>

**Bibliography**

	<p>New possibilities in science education. Canadian Journal of Learning and Technology, 31 (1).          McDermott and the Physics Education Group at the University of Washington (1996). Physics by Inquiry Volume II. Wiley : New York.          Polman, J.L. (1998). Why train ‘little scientists’: The purposes and practices of science education in today’s democracy. Paper presented at the Annual Meeting of the American Educational Research Association, San Diego, CA.          Website-uri          • <a href="http://webquest.org/index.php">http://webquest.org/index.php</a>          • <a href="http://www.fao.org/">http://www.fao.org/</a>          • <a href="http://www.fda.gov/">http://www.fda.gov/</a>          • <a href="http://www.efsa.europa.eu/EFSA/efsa_locale-1178620753812_home.htm">http://www.efsa.europa.eu/EFSA/efsa_locale-1178620753812_home.htm</a>          • <a href="http://www.who.int/en/">http://www.who.int/en/</a>          • <a href="http://www.bottledwater.org/">http://www.bottledwater.org/</a></p>
<p><b>IT</b></p>	<p><b>BIBLIOGRAFIA</b>          Baron J. (2000). Thinking and Deciding. Third Edition, Cambridge University Press.          Driver, R., Newton, P. and Osborne, J. (2000). Establishing the norms of scientific argumentation in classroom. Science Education. 84 (3), 287-312.          Fisher, T. (2002). Theory into practice: Webquests in Geography, Geographical Association, Sheffield, UK.          Kolsto, S. D. (2001). 'To trust or not to trust, ...' - pupils' ways of judging information encountered in a socio-scientific issue. International Studies in Science Education, 23 (9) 877-901.          Kubicek P. J (2005). Inquiry-based learning, the nature of science, and computer technology: New possibilities in science education. Canadian Journal of Learning and Technology, 31 (1).          McDermott and the Physics Education Group at the University of Washington (1996). Physics by Inquiry Volume II. Wiley : New York.          Polman, J.L. (1998). Why train ‘little scientists’: The purposes and practices of science education in today’s democracy. Paper presented at the Annual Meeting of the American Educational Research Association, San Diego, CA.          Siti Web          • <a href="http://webquest.org/index.php">http://webquest.org/index.php</a>          • <a href="http://www.fao.org/">http://www.fao.org/</a>          • <a href="http://www.fda.gov/">http://www.fda.gov/</a>          • <a href="http://www.efsa.europa.eu/EFSA/efsa_locale-1178620753812_home.htm">http://www.efsa.europa.eu/EFSA/efsa_locale-1178620753812_home.htm</a>          • <a href="http://www.who.int/en/">http://www.who.int/en/</a>          • <a href="http://www.bottledwater.org/17">http://www.bottledwater.org/17</a></p>
<ul style="list-style-type: none"> <li>• <b><u>The air – a gaseous solution. Air Pollution</u></b></li> <li>• <b><u>Aerul – soluție gazoasă. Poluarea aerului</u></b></li> </ul>	
<p><b>EN</b></p>	<p><b>BIBLIOGRAPHY</b>          1. Chifu T, Murariu A „ The basis of the environment protection”          2. Niac G „ Ecologic Chemistry”</p>

### Bibliography

	<p>3. Chemistry methodological guide  4. Chemistry evaluation guide  5. „Air and water” Encyclopedia Rao  6. General Catalogue of Sciences 2007 Altay  7. <a href="http://www.youngreporters">http://www.youngreporters</a>.  8. <a href="http://ro.wikipedia.org/wiki/Aer">http://ro.wikipedia.org/wiki/Aer</a>  <a href="http://www.sanatatea.com">http://www.sanatatea.com</a></p>
RO	<p><b>BIBLIOGRAFIE</b>  1. Chifu T, Murariu A „ The basis of the environment protection”  2. Niac G „ Ecologic Chemistry”  3. Chemistry methodological guide  4. Chemistry evaluation guide  5. „Air and water” Encyclopedia Rao  6. General Catalogue of Sciences 2007 Altay  7. <a href="http://www.youngreporters">http://www.youngreporters</a>.  8. <a href="http://ro.wikipedia.org/wiki/Aer">http://ro.wikipedia.org/wiki/Aer</a>  9. <a href="http://www.sanatatea.com">http://www.sanatatea.com</a></p>
<ul style="list-style-type: none"> <li>• <b><u>Acids and Bases in Nature and Nutrition</u></b></li> </ul>	
EN	<p><b>BIBLIOGRAPHY:</b>  Bruner, J. (1961). The act of discovery. <i>Harvard Educational Review</i>, 31, 21-32.  Linn, M. C., Songer, N. B., &amp; Eylon, B-S. (1996). Shifts and Convergences in Science Learning and Instruction. In D. C. B. R. C. Calfee (Eds.), <i>Handbook of Educational Psychology</i> (pp. 438-490). NY: Simon &amp; Schuster Macmillan.  National Research Council (1996). <i>National science education standards</i>. Washington, DC: National Academy Press</p>
<ul style="list-style-type: none"> <li>• <b><u>Metals, Alloys and Corrosion</u></b></li> </ul>	
EN	<p><b>Bibliography:</b>  Bruner, J. (1961). The act of discovery. <i>Harvard Educational Review</i>, 31, 21-32.  Linn, M. C., Songer, N. B., &amp; Eylon, B-S. (1996). Shifts and Convergences in Science Learning and Instruction. In D. C. B. R. C. Calfee (Eds.), <i>Handbook of Educational Psychology</i> (pp. 438-490). NY: Simon &amp; Schuster Macmillan.  National Research Council (1996). <i>National science education standards</i>. Washington, DC: National Academy Press</p>
<h2>BIOLOGY</h2>	
<ul style="list-style-type: none"> <li>• <b><u>Investigation of water quality in a salt-lake ecosystem</u></b></li> <li>• <b><u>Διερεύνηση της ποιότητας του νερού σε έναν υδροβιότοπο</u></b></li> </ul>	
EN	<p><b>REFERENCES</b>  Avraamidou, L., &amp; Zembal-Saul, C. (2005). Giving priority to evidence in science</p>

**Bibliography**

	<p>teaching: A first-year elementary teacher's specialized practices and knowledge. <i>Journal of Research in Science Teaching</i>, 42(9), 1-22.</p> <p>Abd-El-Khalick, F., Boujaoude, S., Duschl, R., Lederman, N.G., Mamlok-Naaman, R., Hofstein, A., Niaz, M., Treagust, D., &amp; Tuan, H.L. (2004). Inquiry in science education: International perspectives. <i>Science Education</i>, 88, 397-419</p> <p>Australian College of Education (2001). <i>A Summary of Propositions and a National Declaration for Education 2001: A Report of the Findings</i>, 27, 2, 3-26.</p> <p>Bruner, J. (1961). The act of discovery. <i>Harvard Educational Review</i>, 31, 21-32.</p> <p>Crawford, B. A. (2000). Embracing the essence of inquiry: New roles for science teachers. <i>Journal of Research in Science Teaching</i>, 37(9), 916-937.</p> <p>Darling-Hammond, L., &amp; Bransford, J. (2005). Preparing teachers for a changing world: What teachers should learn and be able to do. San Francisco, CA: Jossey-Bass.</p> <p>Dierking, L.D., Falk, J.H., Rennie, L., Anderson, D., &amp; Ellenbogen, K. (2003). Policy statement of the “informal science education” ad hoc committee, <i>Journal of Research in Science Teaching</i>, 40, 2, 108-111.</p> <p>Duschl, R.A., Schweingruber, A., &amp; Shouse, A.W. (2006). Taking science to school: Learning and teaching science in grades K-8. Washington D.C: The National Academy Press.</p> <p>Keys, C.W., &amp; Bryan, L.A. (2001). Co-Constructing inquiry-based science with teachers: Essential research for lasting Reform. <i>Journal of Research in Science Teaching</i>, 38(6), 631-645.</p> <p>Koliopoulos, D. (2003). Blunting the tension between informal and formal education in science: Reforming the relationship between the school and the science museum in Greece. <i>The Euro-Mediterranean Centre for Educational Research</i>, 8, 1, 181-95.</p> <p>Linn, M. C., Songer, N. B., &amp; Eylon, B-S. (1996). Shifts and Convergences in Science Learning and Instruction. In D. C. B. R. C. Calfee (Eds.), <i>Handbook of Educational Psychology</i> (pp. 438-490). NY: Simon &amp; Schuster Macmillan.</p> <p>Mayer, R. E. (1992). <i>Thinking, Problem Solving, Cognition</i> (2nd ed.). New York: Freeman.</p> <p>22 23</p> <p>Millar, R., &amp; Osborne, J.F. (1998). <i>Beyond 2000: Science education for the future</i>. London, UK: King's College London.</p> <p>National Research Council (1996). <i>National science education standards</i>. Washington, DC: National Academy Press</p>
<p><b>EL</b></p>	<p><b>ΒΙΒΛΙΟΓΡΑΦΙΑ</b></p> <p>Avraamidou, L., &amp; Zembal-Saul, C. (2005). Giving priority to evidence in science teaching: A first-year elementary teacher's specialized practices and knowledge. <i>Journal of Research in Science Teaching</i>, 42(9), 1-22.</p> <p>Abd-El-Khalick, F., Boujaoude, S., Duschl, R., Lederman, N.G., Mamlok-Naaman, R., Hofstein, A., Niaz, M., Treagust, D., &amp; Tuan, H.L. (2004). Inquiry in science education: International perspectives. <i>Science Education</i>, 88, 397-419</p> <p>Australian College of Education (2001). <i>A Summary of Propositions and a National Declaration for Education 2001: A Report of the Findings</i>, 27, 2, 3-26.</p> <p>Bruner, J. (1961). The act of discovery. <i>Harvard Educational Review</i>, 31, 21-32.</p> <p>Crawford, B. A. (2000). Embracing the essence of inquiry: New roles for science teachers. <i>Journal of Research in Science Teaching</i>, 37(9), 916-937.</p> <p>Darling-Hammond, L., &amp; Bransford, J. (2005). Preparing teachers for a changing world: What teachers should learn and be able to do. San Francisco, CA:</p>

**Bibliography**

	<p>Jossey-Bass.</p> <p>Dierking, L.D., Falk, J.H., Rennie, L., Anderson, D., &amp; Ellenbogen, K. (2003). Policy statement of the “informal science education” ad hoc committee, <i>Journal of Research in Science Teaching</i>, 40, 2, 108-111.</p> <p>Duschl, R.A., Schweingruber, A., &amp; Shouse, A.W. (2006). Taking science to school: Learning and teaching science in grades K-8. Washington D.C: The National Academy Press.</p> <p>Keys, C.W., &amp; Bryan, L.A. (2001). Co-Constructing inquiry-based science with teachers: Essential research for lasting Reform. <i>Journal of Research in Science Teaching</i>, 38(6), 631-645.</p> <p>Koliopoulos, D. (2003). Blunting the tension between informal and formal education in science: Reforming the relationship between the school and the science museum in Greece. <i>The Euro-Mediterranean Centre for Educational Research</i>, 8, 1, 181-95.</p> <p>Linn, M. C., Songer, N. B., &amp; Eylon, B-S. (1996). Shifts and Convergences in Science Learning and Instruction. In D. C. B. R. C. Calfee (Eds.), <i>Handbook of Educational Psychology</i> (pp. 438-490). NY: Simon &amp; Schuster Macmillan.</p> <p>Mayer, R. E. (1992). <i>Thinking, Problem Solving, Cognition</i> (2nd ed.). New York: Freeman.</p>
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- **Study of a Natural Ecosystem**
- **Studio di un ecosistema naturale**

<b>EN</b>	<p><b>BIBLIOGRAPHY</b></p> <p><i>References in the module text –</i></p> <p>Arun, A.B., Beena, K.R., Raviraja, N.S., &amp; Sridhar, K.R. (1999). Coastal Sand Dunes : a Neglected Ecosystem. <i>Current science</i>, 77(1), 19-21.</p> <p>Costanza, R.R., d'Arge, R., de Groot, R., Farber, S., Grasso, M., Hannon, B., et al. (1997). The Value of the World's Ecosystem Services and Natural Capital. <i>Nature</i>, 387, 253-260.</p> <p>Hane, E.N. (2007). Use of an Inquiry-Based Approach to Teach Experimental Design Concepts in a General Ecology Course. <i>Teaching Issues and Experiments in Ecology</i>, 5, 1-19.</p> <p>Odum, E. (1971). <i>Fundamentals of Ecology</i>. Philadelphia-London: Saunders.</p> <p>Odum, E. (1993). <i>Ecology and Our Endangered Life-Support Systems</i>. Sunderland, Ma: Sinauer Associates.</p> <p>Ricklefs, R. (1983). <i>The Economy of Nature</i>. New York: Chiron Press.</p> <p>Tansley, A.G. (1935). The Use and Abuse of Vegetational Terms and Concepts. <i>Ecology</i>, 16, 284-307.</p> <p><i>References for Ecosystem (after <a href="http://en.wikipedia.org/wiki/Ecosystem">http://en.wikipedia.org/wiki/Ecosystem</a>, modified) –</i></p> <p>Andrewatha, H.G., &amp; Birch, L.C. (1954). <i>The Distribution and Abundance of Animals</i>. Chicago, IL: University of Chicago Press.</p> <p>Christopherson, R. W. (1996). <i>Geosystems: An Introduction to Physical Geography</i>. Upper Saddle River, NJ: Prentice Hall Inc.</p>
-----------	---

## Bibliography

	<p>Möller-Dombois, D., &amp; Ellenberg, H. (1974). <i>A Tentative Physiognomic-Ecological Classification of Plant Formations of the Earth</i>. J. New York: Willey and Sons.</p> <p>Tansley, A.G. (1939). <i>The British Islands and Their Vegetation</i> (Volume 1 of 2). United Kingdom: Cambridge University Press.</p> <p>Ulanowicz, R. (1997). <i>Ecology, the Ascendant Perspective</i>. New York: Columbia Univ. Press.</p> <p>United Nations Environment Programme (1992). <i>Convention on Biological Diversity</i>. UNEP Document no. Na.92-78. Retrieved from <a href="http://www.ciesin.org/docs/008-589/008-589.html">http://www.ciesin.org/docs/008-589/008-589.html</a> <a href="http://www.millenniumassessment.org">http://www.millenniumassessment.org</a></p> <p><i>Further reading (after <a href="http://en.wikipedia.org/wiki/Ecosystem">http://en.wikipedia.org/wiki/Ecosystem</a>, modified) –</i></p> <p>Boer, P.J. den, &amp; Reddingius, J. (1996). <i>Regulation and Stabilization Paradigms in Population Ecology, Population and Community Biology Series 16</i>. New York: Chapman and Hall.</p> <p>Ehrlich, P., &amp; Walker, B. (1998). Rivets and Redundancy. <i>BioScience</i>, 48, 387-388.</p> <p>Grime, J.P. (1997). Biodiversity and Ecosystem Function: The Debate Deepens. <i>Science</i>, 277(5330), 1260-1261.</p> <p>Groom, M.J., Meffe, G.K., &amp; Carroll, C.R. (2006). <i>Principles of Conservation Biology</i>. Sunderland, MA: Sinauer Associates.</p> <p>Lawton, J.H. (1994). What Do Species Do in Ecosystems? <i>Oikos</i>, 71, 367-374.</p> <p>Lindeman, R.L. (1942). The Trophic-Dynamic Aspect of Ecology. <i>Ecology</i>, 23, 399-418.</p> <p>Ranganathan, J., &amp; Irwin, F. (2007). <i>Restoring Nature's Capital: An Action Agenda to Sustain Ecosystem Services</i>. Washington, D.C.: World Resources Institute.</p> <p>Patten, B.C. (1959). An Introduction to the Cybernetics of the Ecosystem: The Trophic-Dynamic Aspect. <i>Ecology</i>, 40(2), 221-231.</p> <p>Vreugdenhil, D., Terborgh, J., Cleef, A.M., Sinitsyn, M., Boere, G.C., Archaga, V.L., et al. (2003). <i>Comprehensive Protected Areas System Composition and Monitoring</i>. Gland, Switzerland: IUCN.</p> <p><i>Italian references –</i></p> <p>Ferrari, M. (2000). <i>Ecologia del paesaggio ed ecologia applicata</i>. Bologna: Edagricole Scolastico.</p> <p>Odum, E.P., &amp; Barrett, G.W. (1987). <i>Fondamenti di ecologia</i> (3° ed.). Padova: Piccin – Nuova Libreria.</p> <p>Smith, T.M., &amp; Smith, R.L. (2007). <i>Elementi di ecologia</i>. Milano: Pearson Education Italia.</p>
IT	<p>BIBLIOGRAFIA</p> <p><i>Riferimenti bibliografici nel testo del modulo:</i></p> <p>Arun, A.B., Beena, K.R., Raviraja, N.S., &amp; Sridhar, K.R. (1999). Coastal Sand</p>

### Bibliography

- Dunes : a Neglected Ecosystem. *Current science*, 77(1), 19-21.
- Costanza, R.R., d'Arge, R., de Groot, R., Farber, S., Grasso, M., Hannon, B., et al. (1997). The Value of the World's Ecosystem Services and Natural Capital. *Nature*, 387, 253-260.
- Hane, E.N. (2007). Use of an Inquiry-Based Approach to Teach Experimental Design Concepts in a General Ecology Course. *Teaching Issues and Experiments in Ecology*, 5, 1-19.
- Odum, E. (1971). *Fundamentals of Ecology*. Philadelphia-London: Saunders.
- Odum, E. (1993). *Ecology and Our Endangered Life-Support Systems*. Sunderland, Ma: Sinauer Associates.
- Ricklefs, R. (1983). *The Economy of Nature*. New York: Chiron Press.
- Tansley, A.G. (1935). The Use and Abuse of Vegetational Terms and Concepts. *Ecology*, 16, 284-307.
- Riferimenti bibliografici per l'ecosistema (da <http://en.wikipedia.org/wiki/Ecosystem>, modificato):*
- Andrewatha, H.G., & Birch, L.C. (1954). *The Distribution and Abundance of Animals*. Chicago, IL: University of Chicago Press.
- Christopherson, R.W. (1996). *Geosystems: An Introduction to Physical Geography*. Upper Saddle River, NJ: Prentice Hall Inc.
- Möller-Dombois, D., & Ellenberg, H. (1974). *A Tentative Physiognomic-Ecological Classification of Plant Formations of the Earth*. J. New York: Willey and Sons.
- Tansley, A.G. (1939). *The British Islands and Their Vegetation* (Volume 1 of 2). United Kingdom: Cambridge University Press.
- Ulanowicz, R. (1997). *Ecology, the Ascendant Perspective*. New York: Columbia Univ. Press.
- United Nations Environment Programme (1992). *Convention on Biological Diversity*. UNEP Document no. Na.92-78. Retrieved from <http://www.ciesin.org/docs/008-589/008-589.html>
- <http://www.millenniumassessment.org>
- Lecture di approfondimento (da <http://en.wikipedia.org/wiki/Ecosystem>, modificato):*
- Boer, P.J. den, & Reddingius, J. (1996). *Regulation and Stabilization Paradigms in Population Ecology, Population and Community Biology Series 16*. New York: Chapman and Hall.
- Ehrlich, P., & Walker, B. (1998). Rivets and Redundancy. *BioScience*, 48, 387-388.
- Grime, J.P. (1997). Biodiversity and Ecosystem Function: The Debate Deepens. *Science*, 277(5330), 1260-1261.
- Groom, M.J., Meffe, G.K., & Carroll, C.R. (2006). *Principles of Conservation*

## Bibliography

	<p><i>Biology</i>. Sunderland, MA: Sinauer Associates.</p> <p>Lawton, J.H. (1994). What Do Species Do in Ecosystems? <i>Oikos</i>, 71, 367-374.</p> <p>Lindeman, R.L. (1942). The Trophic-Dynamic Aspect of Ecology. <i>Ecology</i>, 23, 399-418.</p> <p>Ranganathan, J., &amp; Irwin, F. (2007). <i>Restoring Nature's Capital: An Action Agenda to Sustain Ecosystem Services</i>. Washington, D.C.: World Resources Institute.</p> <p>Patten, B.C. (1959). An Introduction to the Cybernetics of the Ecosystem: The Trophic-Dynamic Aspect. <i>Ecology</i>, 40(2), 221-231.</p> <p>Vreugdenhil, D., Terborgh, J., Cleef, A.M., Sinitsyn, M., Boere, G.C., Archaga, V.L., et al. (2003). <i>Comprehensive Protected Areas System Composition and Monitoring</i>. Gland, Switzerland: IUCN.</p> <p><i>Riferimenti bibliografici italiani:</i></p> <p>Ferrari, M. (2000). <i>Ecologia del paesaggio ed ecologia applicata</i>. Bologna: Edagricole Scolastico.</p> <p>Odum, E.P., &amp; Barrett, G.W. (1987). <i>Fondamenti di ecologia</i> (3° ed.). Padova: Piccin – Nuova Libreria.</p> <p>Smith, T.M., &amp; Smith, R.L. (2007). <i>Elementi di ecologia</i>. Milano: Pearson Education Italia.</p>
	<ul style="list-style-type: none"> <li>• <b><u>Photosynthesis and Plant Respiration</u></b></li> <li>• <b><u>Fotosintesi e respirazione delle piante</u></b></li> <li>• <b><u>Fotosinteza și respirația plantelor</u></b></li> </ul>
EN	<p><b>BIBLIOGRAPHY</b></p> <p><i>References in the module text –</i></p> <p>Anderson, C.W., Sheldon, T.H. &amp; DuBay, J. (1990). The Effect of Instruction on College Nonmajors' Conceptions of Photosynthesis and respiration. <i>Journal of Research in Science Teaching</i>, 27(8), 761–776.</p> <p>Amir, R., &amp; Tamir, P. (1994). In-depth Analysis of Misconceptions as a Basis for Developing Research-based Remedial Instruction: the Case of Photosynthesis. <i>The American Biology Teacher</i>, 56(2), 94–100.</p> <p>Bahar, M., Johnstone, A.H., &amp; Hansell, M.H. (1999). Revisiting Learning Difficulties in Biology. <i>Journal of Biological Education</i>, 33(2), 84-86.</p> <p>Çapa, Y. (2000). <i>An Analysis of 9<sup>th</sup> Grade Student's Misconceptions Concerning Photosynthesis and Respiration in Plants</i>. Unpublished Master Dissertation, Middle East Technical University, Turkey.</p> <p>Eisen, Y., &amp; Stavy, R. (1992). Material Cycles in Nature, a New Approach to</p>

## Bibliography

- Teaching  
Photosynthesis in Junior High School. *The American Biology Teacher*, 54(6), 339–342.
- Lambers, H., & Ribas-Carbó, M. (Eds.). (2005). *Plant Respiration: From Cell to Ecosystem (Advances in Photosynthesis & Respiration)*. Dordrecht: Kluwer Academic Publishers.
- Storey, R.D. (1989). *Textbook Errors & Misconceptions in Biology: Photosynthesis*. American Biology Teacher, eric.ed.gov EJ392816, ERIC Home.
- References for Photosynthesis (after <http://en.wikipedia.org/wiki/Photosynthesis>, modified) –*
- Bryant, D.A., & Frigaard, N.U. (2006). Prokaryotic Photosynthesis and Phototrophy Illuminated. *Trends Microbiol* 14(11), 488-496.
- Buick, R. (2008). When did oxygenic photosynthesis evolve?. *Philos. Trans. R. Soc. Lond., B, Biol. Sci.* 363(1504), 2731–2743.
- Douglas, S.E. (1998). Plastid Evolution: Origins, Diversity, Trends. *Curr. Opin. Genet. Dev.*, 8(6), 655–661.
- Field, C.B., Behrenfeld, M.J., Randerson, J.T., & Falkowski P. (1998). Primary Production of the Biosphere: Integrating Terrestrial and Oceanic Components. *Science*, 281(5374), 237–240.
- Gould, S.B., Waller, R.F., & McFadden, G.I. (2008). Plastid Evolution. *Annu. Rev. Plant Biol.*, 59, 491–517.
- Herrero, A., Flores, E., (Eds.). (2008). *The Cyanobacteria: Molecular Biology, Genomics and Evolution* (1st Ed.). Caister: Academic Press.
- Mullineaux, C.W. (1999). The thylakoid Membranes of Cyanobacteria: Structure, Dynamics and Function. *Australian Journal of Plant Physiology*, 26(7), 671–677.
- Muscatine, L., & Greene, R.W. (1973). Chloroplasts and Algae as Symbionts in Mollusks. *Int. Rev. Cytol.*, 36, 137–69.
- Nealson, K.H., & Conrad, P.G. (1999). Life: Past, Present and Future. *Philos. Trans. R. Soc. Lond., B, Biol. Sci.* 354(1392), 1923–39.
- Olson, J.M. (2006). Photosynthesis in the Archean Era. *Photosyn. Res.* 88(2), 109–117.
- Pushkar, Y., Yano, J., Sauer, K., Boussac, A., & Yachandra, V.K. (2008). Structural Changes in the Mn4Ca Cluster and the Mechanism of Photosynthetic Water Splitting. *Proc. Natl. Acad. Sci. U.S.A.* 105(6), 1879–1884.
- Raven, J.A., & Allen, J.F. (2003). Genomics and Chloroplast Evolution: What Did Cyanobacteria Do for Plants? *Genome Biol.*, 4(3), 209.

### Bibliography

- Raven, P.H., Evert, R.F., & Eichhorn, S.E. (2005). *Biology of Plants*, (7th Ed.). New York: W.H. Freeman and Company Publishers.
- Reyes-Prieto, A., Weber, A.P., & Bhattacharya, D. (2007). The Origin and Establishment of the Plastid in Algae and Plants. *Annu. Rev. Genet.*, 41, 147–168.
- Rumpho, M.E., Summer, E.J., & Manhart, J.R. (2000). Solar-Powered Sea Slugs. Mollusc/Algal Chloroplast Symbiosis. *Plant Physiol.*, 123(1), 29–38.
- Rumpho, M.E., Worful, J.M., Lee, J., Kannan, K., Tyler, M.S., Bhattacharya, D., et al. (2008). Horizontal Gene Transfer of the Algal Nuclear Gene psbO to the Photosynthetic Sea Slug Elysia Chlorotica. *Proc. Natl. Acad. Sci. U.S.A.*, 105(46), 17867–17871.
- Sener, M.K., Olsen, J.D., Hunter, C.N., & Schulten, K. (2007). Atomic-level Structural and Functional Model of a Bacterial Photosynthetic Membrane Vesicle. *Proc. Natl. Acad. Sci. U.S.A.* 104(40), 15723–15728.
- Smith, A.L. (1997). *Oxford Dictionary of Biochemistry and Molecular Biology*. Oxford: Oxford University Press.
- Taiz, L., & Zeiger, E. (2006). *Plant Physiology* (4th ed.). Sunderland, Massachusetts: Sinauer Associates.
- Tavano, C.L., & Donohue, T.J. (2006). Development of the Bacterial Photosynthetic Apparatus. *Curr. Opin. Microbiol.*, 9(6), 625–631.
- Venn, A.A., Loram, J.E., & Douglas, A.E. (2008). Photosynthetic Symbioses in Animals. *J. Exp. Bot.*, 59(5), 1069–1080
- Further reading (after <http://en.wikipedia.org/wiki/Photosynthesis>, modified) –*
- Bidlack, J.E.; Stern, K.R., & Jansky, S. (2003). *Introductory Plant Biology*. New York: McGraw-Hill.
- Blankenship, R.E. (2008). *Molecular Mechanisms of Photosynthesis* (2nd ed.). New York: John Wiley & Sons Inc.
- Govindjee, R. (1975). *Bioenergetics of Photosynthesis*. Boston: Academic Press.
- Govindjee, S., Beatty, J.T., Gest, H., & Allen, J.F. (2006). *Discoveries in Photosynthesis*. Vol. 20, Advances in Photosynthesis and Respiration. Berlin: Springer.
- Gregory, R.L. (1971). *Biochemistry of Photosynthesis*. New York: Wiley-Interscience.
- Rabinowitch, E., & Govindjee (1969). *Photosynthesis*. London: John Wiley & Sons.
- Reece, J., & Campbell, N. (2005). *Biology*. San Francisco: Pearson, Benjamin Cummings.
- Italian references –*
- Solomon, E.P., Berg, R.B., & Martin, D.W. (2006). *La Cellula* (4a Ed.). Napoli:

## Bibliography

	<p>EdiSes Edizioni. Stern, K.R., Bidlack, J.E., &amp; Jansky, S.H. (2009). <i>Introduzione alla Biologia Vegetale</i>. McGraw-Hill (in uscita).</p>
IT	<p><b>BIBLIOGRAFIA</b> <i>Riferimenti bibliografici nel testo del modulo:</i> Anderson, C.W., Sheldon, T.H. &amp; DuBay, J. (1990). The Effect of Instruction on College Nonmajors' Conceptions of Photosynthesis and respiration. <i>Journal of Research in Science Teaching</i>, 27(8), 761–776. Amir, R., &amp; Tamir, P. (1994). In-depth Analysis of Misconceptions as a Basis for Developing Research-based Remedial Instruction: the Case of Photosynthesis. <i>The American Biology Teacher</i>, 56(2), 94–100. Bahar, M., Johnstone, A.H., &amp; Hansell, M.H. (1999). Revisiting Learning Difficulties in Biology. <i>Journal of Biological Education</i>, 33(2), 84-86. Çapa, Y. (2000). <i>An Analysis of 9<sup>th</sup> Grade Student's Misconceptions Concerning Photosynthesis and Respiration in Plants</i>. Unpublished Master Dissertation, Middle East Technical University, Turkey. Eisen, Y., &amp; Stavy, R. (1992). Material Cycles in Nature, a New Approach to Teaching Photosynthesis in Junior High School. <i>The American Biology Teacher</i>, 54(6), 339–342. Lambers, H., &amp; Ribas-Carbó, M. (Eds.). (2005). <i>Plant Respiration: From Cell to Ecosystem (Advances in Photosynthesis &amp; Respiration)</i>. Dordrecht: Kluwer Academic Publishers. Storey, R.D. (1989). <i>Textbook Errors &amp; Misconceptions in Biology: Photosynthesis</i>. American Biology Teacher, eric.ed.gov EJ392816, ERIC Home. <i>Riferimenti bibliografici relativi alla fotosintesi (da <a href="http://en.wikipedia.org/wiki/Photosynthesis">http://en.wikipedia.org/wiki/Photosynthesis</a>, modificato):</i> Bryant, D.A., &amp; Frigaard, N.U. (2006). Prokaryotic Photosynthesis and Phototrophy Illuminated. <i>Trends Microbiol</i> 14(11), 488-496. Buick, R. (2008). When did oxygenic photosynthesis evolve?. <i>Philos. Trans. R. Soc. Lond., B, Biol. Sci.</i> 363(1504), 2731–2743. Douglas, S.E. (1998). Plastid Evolution: Origins, Diversity, Trends. <i>Curr. Opin. Genet. Dev.</i>, 8(6), 655–661. Field, C.B., Behrenfeld, M.J., Randerson, J.T., &amp; Falkowski P. (1998). Primary Production of the Biosphere: Integrating Terrestrial and Oceanic Components. <i>Science</i>,</p>

## Bibliography

- 281(5374), 237–240.
- Gould, S.B., Waller, R.F., & McFadden, G.I. (2008). Plastid Evolution. *Annu. Rev. Plant Biol.*, 59, 491–517.
- Herrero, A., Flores, E., (Eds.). (2008). *The Cyanobacteria: Molecular Biology, Genomics and Evolution* (1st Ed.). Caister: Academic Press.
- Mullineaux, C.W. (1999). The thylakoid Membranes of Cyanobacteria: Structure, Dynamics and Function. *Australian Journal of Plant Physiology*, 26(7), 671–677.
- Muscatine, L., & Greene, R.W. (1973). Chloroplasts and Algae as Symbionts in Mollusks. *Int. Rev. Cytol.*, 36, 137–69.
- Nealson, K.H., & Conrad, P.G. (1999). Life: Past, Present and Future. *Philos. Trans. R. Soc. Lond., B, Biol. Sci.* 354(1392), 1923–39.
- Olson, J.M. (2006). Photosynthesis in the Archean Era. *Photosyn. Res.* 88(2), 109–117.
- Pushkar, Y., Yano, J., Sauer, K., Boussac, A., & Yachandra, V.K. (2008). Structural Changes in the Mn<sub>4</sub>Ca Cluster and the Mechanism of Photosynthetic Water Splitting. *Proc. Natl. Acad. Sci. U.S.A.* 105(6), 1879–1884.
- Raven, J.A., & Allen, J.F. (2003). Genomics and Chloroplast Evolution: What Did Cyanobacteria Do for Plants? *Genome Biol.*, 4(3), 209.
- Raven, P.H., Evert, R.F., & Eichhorn, S.E. (2005). *Biology of Plants*, (7th Ed.). New York: W.H. Freeman and Company Publishers.
- Reyes-Prieto, A., Weber, A.P., & Bhattacharya, D. (2007). The Origin and Establishment of the Plastid in Algae and Plants. *Annu. Rev. Genet.*, 41, 147–168.
- Rumpho, M.E., Summer, E.J., & Manhart, J.R. (2000). Solar-Powered Sea Slugs. Mollusc/Algal Chloroplast Symbiosis. *Plant Physiol.*, 123(1), 29–38.
- Rumpho, M.E., Worful, J.M., Lee, J., Kannan, K., Tyler, M.S., Bhattacharya, D., et al. (2008). Horizontal Gene Transfer of the Algal Nuclear Gene psbO to the Photosynthetic Sea Slug Elysia Chlorotica. *Proc. Natl. Acad. Sci. U.S.A.*, 105(46), 17867–17871.
- Sener, M.K., Olsen, J.D., Hunter, C.N., & Schulten, K. (2007). Atomic-level Structural and Functional Model of a Bacterial Photosynthetic Membrane Vesicle. *Proc. Natl. Acad. Sci. U.S.A.* 104(40), 15723–15728.
- Smith, A.L. (1997). *Oxford Dictionary of Biochemistry and Molecular Biology*. Oxford: Oxford University Press.
- Taiz, L., & Zeiger, E. (2006). *Plant Physiology* (4th ed.). Sunderland, Massachusetts: Sinauer

## Bibliography

	<p>Associates.  Tavano, C.L., &amp; Donohue, T.J. (2006). Development of the Bacterial Photosynthetic Apparatus. <i>Curr. Opin. Microbiol.</i>, 9(6), 625–631.  Venn, A.A., Loram, J.E., &amp; Douglas, A.E. (2008). Photosynthetic Symbioses in Animals. <i>J. Exp. Bot.</i>, 59(5), 1069–1080  <i>Letture di approfondimento (da <a href="http://en.wikipedia.org/wiki/Photosynthesis">http://en.wikipedia.org/wiki/Photosynthesis</a>, modificato):</i>  Bidlack, J.E.; Stern, K.R., &amp; Jansky, S. (2003). <i>Introductory Plant Biology</i>. New York: McGraw-Hill.  Blankenship, R.E. (2008). <i>Molecular Mechanisms of Photosynthesis</i> (2nd ed.). New York: John Wiley &amp; Sons Inc.  Govindjee, R. (1975). <i>Bioenergetics of Photosynthesis</i>. Boston: Academic Press.  Govindjee, S., Beatty, J.T., Gest, H., &amp; Allen, J.F. (2006). <i>Discoveries in Photosynthesis</i>. Vol. 20, Advances in Photosynthesis and Respiration. Berlin: Springer.  Gregory, R.L. (1971). <i>Biochemistry of Photosynthesis</i>. New York: Wiley-Interscience.  Rabinowitch, E., &amp; Govindjee (1969). <i>Photosynthesis</i>. London: John Wiley &amp; Sons.  Reece, J., &amp; Campbell, N. (2005). <i>Biology</i>. San Francisco: Pearson, Benjamin Cummings.  <i>Riferimenti bibliografici italiani:</i>  Solomon, E.P., Berg, R.B., &amp; Martin, D.W. (2006). <i>La Cellula</i> (4a Ed.). Napoli: EdiSes Edizioni.  Stern, K.R., Bidlack, J.E., &amp; Jansky, S.H. (2009). <i>Introduzione alla Biologia Vegetale</i>. McGraw-Hill (in uscita).</p>
RO	<p><b>IBLIOGRAFIE</b></p> <p><i>Referințe în textul modulului –</i>  Anderson, C.W., Sheldon, T.H. &amp; DuBay, J. (1990). The Effect of Instruction on College Nonmajors' Conceptions of Photosynthesis and respiration. <i>Journal of Research in Science Teaching</i>, 27(8), 761–776.  Amir, R., &amp; Tamir, P. (1994). In-depth Analysis of Misconceptions as a Basis for Developing Research-based Remedial Instruction: the Case of Photosynthesis. <i>The American Biology Teacher</i>, 56(2), 94–100.  Bahar, M., Johnstone, A.H., &amp; Hansell, M.H. (1999). Revisiting Learning Difficulties in Biology, <i>Journal of Biological Education</i>, 33(2), 84-86.</p>

### Bibliography

- Capa, Y. (2000). *An Analysis of 9<sup>th</sup> Grade Student's Misconceptions Concerning Photosynthesis and Respiration in Plants*. Unpublished Master Dissertation, Middle East Technical University, Turkey.
- Eisen, Y., & Stavy, R. (1992). Material Cycles in Nature, a New Approach to Teaching Photosynthesis in Junior High School. *The American Biology Teacher*, 54(6), 339–342.
- Lambers, H., & Ribas-Carbo, M. (Eds.). (2005). *Plant Respiration: From Cell to Ecosystem (Advances in Photosynthesis & Respiration)*. Dordrecht: Kluwer Academic Publishers.
- Storey, R.D. (1989). *Textbook Errors & Misconceptions in Biology: Photosynthesis*. American Biology Teacher, eric.ed.gov EJ392816, ERIC Home.
- Referințe pentru fotosinteză (după*  
*<http://en.wikipedia.org/wiki/Photosynthesis>, modificat) –*
- Bryant, D.A., & Frigaard, N.U. (2006). Prokaryotic Photosynthesis and Phototrophy Illuminated. *Trends Microbiol* 14(11), 488-496.
- Buick, R. (2008). When did oxygenic photosynthesis evolve?. *Philos. Trans. R. Soc. Lond., B, Biol. Sci.* 363(1504), 2731–2743.
- Douglas, S.E. (1998). Plastid Evolution: Origins, Diversity, Trends. *Curr. Opin. Genet. Dev.*, 8(6), 655–661.
- Field, C.B., Behrenfeld, M.J., Randerson, J.T., & Falkowski P. (1998). Primary Production of the Biosphere: Integrating Terrestrial and Oceanic Components. *Science*, 281(5374), 237–240.
- Gould, S.B., Waller, R.F., & McFadden, G.I. (2008). Plastid Evolution. *Annu. Rev. Plant Biol.*, 59, 491–517.
- Herrero, A., Flores, E., (Eds.). (2008). *The Cyanobacteria: Molecular Biology, Genomics and*

## Bibliography

- Evolution* (1st Ed.). Caister: Academic Press.
- Mullineaux, C.W. (1999). The thylakoid Membranes of Cyanobacteria: Structure, Dynamics and Function. *Australian Journal of Plant Physiology*, 26(7), 671–677.
- Muscatine, L., & Greene, R.W. (1973). Chloroplasts and Algae as Symbionts in Mollusks. *Int. Rev. Cytol.*, 36, 137–69.
- Nealson, K.H., & Conrad, P.G. (1999). Life: Past, Present and Future. *Philos. Trans. R. Soc. Lond., B, Biol. Sci.* 354(1392), 1923–39.
- Olson, J.M. (2006). Photosynthesis in the Archean Era. *Photosyn. Res.* 88(2), 109–117.
- Pushkar, Y., Yano, J., Sauer, K., Boussac, A., & Yachandra, V.K. (2008). Structural Changes in the Mn<sub>4</sub>Ca Cluster and the Mechanism of Photosynthetic Water Splitting. *Proc. Natl. Acad. Sci. U.S.A.* 105(6), 1879–1884.
- Raven, J.A., & Allen, J.F. (2003). Genomics and Chloroplast Evolution: What Did Cyanobacteria Do for Plants? *Genome Biol.*, 4(3), 209.
- Raven, P.H., Evert, R.F., & Eichhorn, S.E. (2005). *Biology of Plants*, (7th Ed.). New York: W.H. Freeman and Company Publishers.
- Reyes-Prieto, A., Weber, A.P., & Bhattacharya, D. (2007). The Origin and Establishment of the Plastid in Algae and Plants. *Annu. Rev. Genet.*, 41, 147–168.
- Rumpho, M.E., Summer, E.J., & Manhart, J.R. (2000). Solar-Powered Sea Slugs. Mollusc/Algal Chloroplast Symbiosis. *Plant Physiol.*, 123(1), 29–38.
- Rumpho, M.E., Worful, J.M., Lee, J., Kannan, K., Tyler, M.S., Bhattacharya, D., et al. (2008). Horizontal Gene Transfer of the Algal Nuclear Gene psbO to the Photosynthetic Sea Slug Elysia Chlorotica. *Proc. Natl. Acad. Sci. U.S.A.*, 105(46), 17867–17871.
- Sener, M.K., Olsen, J.D., Hunter, C.N., & Schulten, K. (2007). Atomic-level Structural and Functional Model of a Bacterial Photosynthetic Membrane Vesicle. *Proc. Natl. Acad. Sci. U.S.A.* 104(40), 15723–15728.
- Smith, A.L. (1997). *Oxford Dictionary of Biochemistry and Molecular*

**Bibliography**

	<p><i>Biology</i>. Oxford: Oxford University Press.</p> <p>Taiz, L., &amp; Zeiger, E. (2006). <i>Plant Physiology</i> (4th ed.). Sunderland, Massachusetts: Sinauer Associates.</p> <p>Tavano, C.L., &amp; Donohue, T.J. (2006). Development of the Bacterial Photosynthetic Apparatus. <i>Curr. Opin. Microbiol.</i>, 9(6), 625–631.</p> <p>Venn, A.A., Loram, J.E., &amp; Douglas, A.E. (2008). Photosynthetic Symbioses in Animals. <i>J. Exp. Bot.</i>, 59(5), 1069–1080</p> <p><i>Alte titluri (după <a href="http://en.wikipedia.org/wiki/Photosynthesis">http://en.wikipedia.org/wiki/Photosynthesis</a>, modificat) –</i></p> <p>Bidlack, J.E.; Stern, K.R., &amp; Jansky, S. (2003). <i>Introductory Plant Biology</i>. New York: McGraw-Hill.</p> <p>Blankenship, R.E. (2008). <i>Molecular Mechanisms of Photosynthesis</i> (2nd ed.). New York: John Wiley &amp; Sons Inc.</p> <p>Govindjee, R. (1975). <i>Bioenergetics of Photosynthesis</i>. Boston: Academic Press.</p> <p>Govindjee, S., Beatty, J.T., Gest, H., &amp; Allen, J.F. (2006). <i>Discoveries in Photosynthesis</i>. Vol. 20, Advances in Photosynthesis and Respiration. Berlin: Springer.</p> <p>Gregory, R.L. (1971). <i>Biochemistry of Photosynthesis</i>. New York: Wiley-Interscience.</p> <p>Rabinowitch, E., &amp; Govindjee (1969). <i>Photosynthesis</i>. London: John Wiley &amp; Sons.</p> <p>Reece, J., &amp; Campbell, N. (2005). <i>Biology</i>. San Francisco: Pearson, Benjamin Cummings.</p> <p><i>Referințe în italiană –</i></p> <p>Solomon, E.P., Berg, R.B., &amp; Martin, D.W. (2006). <i>La Cellula</i> (4a Ed.). Napoli: EdiSes Edizioni.</p> <p>Stern, K.R., Bidlack, J.E., &amp; Jansky, S.H. (2009). <i>Introduzione alla Biologia Vegetale</i>. McGraw- Hill (in uscita).</p>
	<ul style="list-style-type: none"> <li>• <b><u>Air Quality: Lichens as Bioindicators of Air Pollution</u></b></li> <li>• <b><u>I licheni come bioindicatori dell'inquinamento atmosferico</u></b></li> </ul>
<p>EN</p>	<p><b>BIBLIOGRAPHY</b></p> <p><i>References in the module text –</i></p> <p>Capello, B. (2007). Documenting your emergent curriculum. <i>Childcare Australasia</i>, 3, 32-33.</p>

### Bibliography

- Fleer, M., Edwards, S., Hammer, M., Kennedy, A., Ridgway, A., Robbins, J., et al. (2006). *Early Childhood Learning Communities: Sociocultural Research Practice*. Frenchs Forest: Pearson Education.
- Glass, B., Baker, K., Ellis, R., Bernstone, H., & Hagan, B. (2007). How Does an Inclusive Environment Enhance the Learning of All Children? *New Zealand Childcare Conference*. Paihia, New Zealand.
- Lee, W., Hatherly, A., & Ramsey, K. (2002). Using ICT to Document Children's Learning. *Early Childhood Folio*, 6, 10-15.
- MacNaughton, G., & Williams, G. (2004). *Teaching young children: Choices in theory and practice*. Berkshire: Open University Press.
- Air pollution references –*  
(After <http://www.lbl.gov/Education/ELSI/Frames/pollution-library-refs-f.html>, modified):
- Edelson, Ed. (1992). *Clean Air*. New York: Chelsea House.
- Gay, K. (1991). *Air Pollution*. New York: F. Watts.
- Lucas, E., Challand, H.J., & Stubbs, H. (1991). *Acid Rain*. Chicago: Children's Press.
- Oliver, D.J. (1996). *Killer Air Plagues*. Bay Area: Oakland Tribune.
- Revkin, A. (1992). *Global Warming: Understanding the Forecast*. New York: Abbeville Press.
- Rock, M. (1992). *The Automobile and the Environment*. New York: Chelsea House.
- Sandak, Cass, R.A. (1990). *Reference Guide to Clean Air*. Hillside, NJ: Enslow.
- Tyson, P. (1992). *Acid Rain*. New York: Chelsea House.
- References about Lichens –*  
(After [http://ocid.nacse.org/lichenland/html/short\\_ref\\_list.html](http://ocid.nacse.org/lichenland/html/short_ref_list.html), modified):
- Casselman, K.L. (1993). *Craft of the Dyer - Color from Plants and Lichens*. New York: Dover Publications.
- Esslinger, T.L., & Egan, R.S. (1995). A Sixth Checklist of the Lichen-forming, Lichenicolous, and Allied Fungi of the Continental United States and Canada. *The Bryologist*, 98(4), 467-549.
- Goward, T., McCune, B., & Meidinger, D. (1994). *The Lichens of British Columbia Illustrated Keys, part 1 - Foliose and Suamulose Species*. British Columbia: Ministry of Forests, Research Program.
- Hale, Mason, E., 1979. How to know the lichens, Pictured Key Nature Series.
- Hale, M.E. (1983). *The Biology of Lichens* (3rd Ed). Baltimore: Edward Arnold Publ.
- Hawksworth, D.L., & Hill, D.J. (1984). *The Lichen-Forming Fungi*. New York: Chapman and Hall.
- Galloway, D.J. (1985). *Flora of New Zealand Lichens*. Wellington: P.D.

## Bibliography

	<p>Hasselberg, Government Printer.</p> <p>McCune, B., &amp; Goward, T. (1995). <i>Macrolichens of the Northern Rocky Mountains</i>. Arcata, California: Mad River Press.</p> <p>Thomson, J.W. (1984). <i>American Arctic Lichens. Vol. 1: The Macrolichens</i>. New York: Columbia University Press.</p> <p><i>References about air pollution and lichens (After <a href="http://www.thebls.org.uk/content/refren.html">http://www.thebls.org.uk/content/refren.html</a>, modified) –</i></p> <p>Bates, J.W., &amp; Farmer, A. (Eds.). (1992). <i>Bryophytes and Lichens in a Changing Environment</i>. Oxford: Oxford Science.</p> <p>Ferry, B.W., Baddeley, M.S., &amp; Hawksworth, D.L. (Eds.). (1973). <i>Air Pollution and Lichens</i>. London: Athlone Press.</p> <p>Hawksworth, D.L., &amp; Rose, F. (1976). <i>Lichens as Pollution Monitors</i>. London: Edward Arnold.</p> <p>Henderson, A. (1990). Literature on Air Pollution and Lichens. <i>XXXII, Lichenologist</i>, 22, 397-404.</p> <p>Richardson, D.H.S. (1992). <i>Pollution Monitoring with Lichens</i>. Slough: Richmond Publishing.</p> <p><i>Italian references –</i></p> <p>A.A.V.V. (2001). <i>Manuale ANPA: I.B.L. Indice di Biodiversità Lichenica</i>. Manuali e Linee Guida 2/2001 ANPA – Dipartimento Stato dell’Ambiente, Controlli e Sistemi Informativi.</p> <p>Malavasi, C. (2000). <i>Progetto "Licheni in rete" - Labter Crea-Mn</i>.</p> <p>Pieralli, P., &amp; Traquandi, S. (1991). <i>I Licheni. Guide all’aria pura</i>. Firenze: Editoriale Tosca (Da richiedere alla casa editrice).</p> <p>Valcuvia Passadore, M., &amp; Malavasi, C. (2002). <i>Relazioni simbiotiche: dai licheni all’agenda 21 locale</i>. Regione Lombardia (Il manuale è disponibile presso il Labter Crea di Mantova).  <a href="http://dbiodbs.univ.trieste.it/">http://dbiodbs.univ.trieste.it/</a>  <a href="http://digilander.libero.it/licheniinrete/prima/home.htm">http://digilander.libero.it/licheniinrete/prima/home.htm</a>  <a href="http://it.wikipedia.org/wiki/Lichene">http://it.wikipedia.org/wiki/Lichene</a></p>
IT	<p><b>BIBLIOGRAFIA</b></p> <p><i>Riferimenti bibliografici nel testo del modulo:</i></p> <p>Capello, B. (2007). Documenting your emergent curriculum. <i>Childcare Australasia</i>, 3, 32-33.</p> <p>Fleer, M., Edwards, S., Hammer, M., Kennedy, A., Ridgway, A., Robbins, J., et al. (2006). <i>Early Childhood Learning Communities: Sociocultural Research Practice</i>. Frenchs Forest: Pearson Education.</p> <p>Glass, B., Baker, K., Ellis, R., Bernstone, H., &amp; Hagan, B. (2007). <i>How Does an Inclusive</i></p>

## Bibliography

- Environment Enhance the Learning of All Children? *New Zealand Childcare Conference*. Paihia, New Zealand.
- Lee, W., Hatherly, A., & Ramsey, K. (2002). Using ICT to Document Children's Learning. *Early Childhood Folio*, 6, 10-15.
- MacNaughton, G., & Williams, G. (2004). *Teaching young children: Choices in theory and practice*. Berkshire: Open University Press.
- Riferimenti bibliografici relativi all'inquinamento atmosferico (da <http://www.lbl.gov/Education/ELSI/Frames/pollution-library-refs-f.html>, modificato):*
- Edelson, Ed. (1992). *Clean Air*. New York: Chelsea House.
- Gay, K. (1991). *Air Pollution*. New York: F. Watts.
- Lucas, E., Challand, H.J., & Stubbs, H. (1991). *Acid Rain*. Chicago: Children's Press.
- Oliver, D.J. (1996). *Killer Air Plagues*. Bay Area: Oakland Tribune.
- Revkin, A. (1992). *Global Warming: Understanding the Forecast*. New York: Abbeville Press.
- Rock, M. (1992). *The Automobile and the Environment*. New York: Chelsea House.
- Sandak, Cass, R.A. (1990). *Reference Guide to Clean Air*. Hillside, NJ: Enslow.
- Tyson, P. (1992). *Acid Rain*. New York: Chelsea House.
- Riferimenti bibliografici relativi ai licheni (da [http://ocid.nacse.org/lichenland/html/short\\_ref\\_list.html](http://ocid.nacse.org/lichenland/html/short_ref_list.html), modificato):*
- Casselman, K.L. (1993). *Craft of the Dyer - Color from Plants and Lichens*. New York: Dover Publications.
- Esslinger, T.L., & Egan, R.S. (1995). A Sixth Checklist of the Lichen-forming, Lichenicolous, and Allied Fungi of the Continental United States and Canada. *The Bryologist*, 98(4), 467-549.
- Goward, T., McCune, B., & Meidinger, D. (1994). *The Lichens of British Columbia Illustrated Keys, part 1 - Foliose and Suamulose Species*. British Columbia: Ministry of Forests, Research Program.
- Hale, Mason, E., 1979. How to know the lichens, Pictured Key Nature Series.
- Hale, M.E. (1983). *The Biology of Lichens* (3rd Ed). Baltimore: Edward Arnold Publ.
- Hawksworth, D.L., & Hill, D.J. (1984). *The Lichen-Forming Fungi*. New York: Chapman and Hall.
- Galloway, D.J. (1985). *Flora of New Zealand Lichens*. Wellington: P.D. Hasselberg, Government Printer.
- McCune, B., & Goward, T. (1995). *Macrolichens of the Northern Rocky Mountains*. Arcata, California: Mad River Press.
- Thomson, J.W. (1984). *American Arctic Lichens. Vol. 1: The Macrolichens*. New York: Columbia

### Bibliography

	<p>University Press,  <i>Riferimenti bibliografici relativi all'utilizzo dei licheni nello studio dell'inquinamento atmosferico</i>          (da <a href="http://www.thebls.org.uk/content/refren.html">http://www.thebls.org.uk/content/refren.html</a>, modificato):          Bates, J.W., &amp; Farmer, A. (Eds.). (1992). <i>Bryophytes and Lichens in a Changing Environment</i>.          Oxford: Oxford Science.          Ferry, B.W., Baddeley, M.S., &amp; Hawksworth, D.L. (Eds.). (1973). <i>Air Pollution and Lichens</i>.          London: Athlone Press.          Hawksworth, D.L., &amp; Rose, F. (1976). <i>Lichens as Pollution Monitors</i>. London: Edward Arnold.          Henderson, A. (1990). Literature on Air Pollution and Lichens. <i>XXXII, Lichenologist</i>, 22, 397-404.          Richardson, D.H.S. (1992). <i>Pollution Monitoring with Lichens</i>. Slough: Richmond Publishing.  <i>Riferimenti bibliografici italiani:</i>          A.A.V.V. (2001). <i>Manuale ANPA: I.B.L. Indice di Biodiversità Lichenica</i>. Manuali e Linee Guida          2/2001 ANPA – Dipartimento Stato dell'Ambiente, Controlli e Sistemi Informativi.          Malavasi, C. (2000). <i>Progetto "Licheni in rete"</i> - Labter Crea-Mn.          Pieralli, P., &amp; Traquandi, S. (1991). <i>I Licheni. Guide all'aria pura</i>. Firenze: Editoriale Tosca (Da richiedere alla casa editrice).          Valcuvia Passadore, M., &amp; Malavasi, C. (2002). <i>Relazioni simbiotiche: dai licheni all'agenda 21 locale</i>. Regione Lombardia (Il manuale è disponibile presso il Labter Crea di Mantova).  <a href="http://dbiodbs.univ.trieste.it/">http://dbiodbs.univ.trieste.it/</a>  <a href="http://digilander.libero.it/licheniinrete/prima/home.htm">http://digilander.libero.it/licheniinrete/prima/home.htm</a>  <a href="http://it.wikipedia.org/wiki/Lichene">http://it.wikipedia.org/wiki/Lichene</a></p>
	<ul style="list-style-type: none"> <li>• <b><u>Biocenosis of a natural terrestrial ecosystem – Trivale Forest</u></b></li> <li>• <b><u>Biocenoza unui ecosistem natural terestru - Pădurea Trivale</u></b></li> </ul>
<p>EN</p>	<p><b>BIBLIOGRAPHY</b></p> <ol style="list-style-type: none"> <li>1. Agarwal G. <i>et al.</i> (2006) <i>First steps toward an electronic field guide for plants</i>. In: Electronic field guide for plants. 55 (3) : 597–610.</li> <li>2. Botnariuc, N. &amp; Vădineanu, A. (1982) <i>Ecologie</i>. E.D.P. București.</li> <li>3. Cerghit, I. (2002) <i>Sisteme de instruire alternative și complementare. Structuri, stiluri și strategii</i>. Ed. Aramis. București, p 78-168.</li> <li>4. Ciobanu, M., (2008) <i>Didactica științelor biologice</i>. E.D.P. Bucuresti</li> <li>5. Ciurchea, M., Ciolac-Russu, A., Iordache, I. (1983) <i>Metodica predării</i></li> </ol>

**Bibliography**

	<p><i>științelor biologice</i>. E.D.P. București.</p> <p>6. Cucuș, C. (2006) <i>Pedagogie</i>. Ed. Polirom, Bucuresti, p. 45</p> <p>7. Dibble, B., <i>et al.</i> <i>Online polyclave key for the plants from the Kirby Park natural area</i>, <i>Wilkes-Barre, PA</i>. <a href="http://klemow.wilkes.edu/ppts/PAS06polyclave.ppt">klemow.wilkes.edu/ppts/PAS06polyclave.ppt</a></p> <p>8. Ford, Ph. (1986) <i>Outdoor Education: Definition and Philosophy</i>. Eric Publications ED 267941 <a href="http://eric.ed.gov/">http://eric.ed.gov/</a></p> <p>9. Iordache, I., Leu Ulpia, M. &amp; Ion, C. (2004) <i>Metodica predării-învățării biologiei</i>. Edit. Solaris, Iași.</p> <p>10. Mohan, Gh. &amp; Ardelean, A. (1993) <i>Ecologie și protecția mediului</i>. Ed. Scaiul, București.</p> <p>11. Radu, I.T., Ezechil, L, (2006). <i>Didactica. Teoria instruirii</i>. Ed. Paralela 45. Pitești</p> <p>12. Sims Parr, C., Jones, T. &amp; Butler Songer, N., <i>CyberTracker in BioKIDS: Customization of a PDA-based scientific data collection application for inquiry learning</i>. <a href="http://www.cybertracker.org/CTC_BioKids.html">http://www.cybertracker.org/CTC_BioKids.html</a></p> <p>13. Todor, V. &amp; colab. (1982) <i>Metodica predării biologiei la clasele V-VIII</i>. E.D.P. București.</p> <p>14. <a href="http://www.cybertracker.co.za/">http://www.cybertracker.co.za/</a></p> <p>15. <a href="http://school.discoveryeducation.com/lessonplans/programs/yosemite/">http://school.discoveryeducation.com/lessonplans/programs/yosemite/</a></p> <p>16. <a href="http://www.eowilson.org/index.php">http://www.eowilson.org/index.php</a></p> <p>17. <a href="http://www.deeproot.co.uk/plantbasemobile.html">http://www.deeproot.co.uk/plantbasemobile.html</a></p> <p>18. <a href="http://www.biology4kids.com/animale">http://www.biology4kids.com/animale</a></p> <p>19. <a href="http://www.biokids.umich.edu/research/biokids/">http://www.biokids.umich.edu/research/biokids/</a></p>
<p><b>RO</b></p>	<p><b>BIBLIOGRAFIE</b></p> <p>1. Agarwal G. <i>et al.</i> (2006) <i>First steps toward an electronic field guide for plants</i>. In: <i>Electronic field guide for plants</i>. 55 (3) : 597–610.</p> <p>2. Botnariuc, N. &amp; Vădineanu, A. (1982) <i>Ecologie</i>. E.D.P. București.</p> <p>3. Cerghit, I. (2002) <i>Sisteme de instruire alternative și complementare. Structuri, stiluri și strategii</i>”. Ed. Aramis. București, p 78-168.</p> <p>4. Ciobanu, M., (2008) <i>Didactica științelor biologice</i>. E.D.P. Bucuresti</p> <p>5. Ciurchea, M., Ciolac-Russu, A., Iordache, I. (1983) <i>Metodica predării științelor biologice</i>. E.D.P. București.</p> <p>6. Cucuș, C. (2006) <i>Pedagogie</i>. Ed. Polirom, Bucuresti, p. 45</p> <p>7. Dibble, B., <i>et al.</i> <i>Online polyclave key for the plants from the Kirby Park natural area</i>, <i>Wilkes-Barre, PA</i>. <a href="http://klemow.wilkes.edu/ppts/PAS06polyclave.ppt">klemow.wilkes.edu/ppts/PAS06polyclave.ppt</a></p> <p>8. Ford, Ph. (1986) <i>Outdoor Education: Definition and Philosophy</i>. Eric Publications ED 267941 <a href="http://eric.ed.gov/">http://eric.ed.gov/</a></p> <p>9. Iordache, I., Leu Ulpia, M. &amp; Ion, C. (2004) <i>Metodica predării-învățării</i></p>

### Bibliography

	<p><i>biologiei</i>. Edit. Solaris, Iași.</p> <p>10. Mohan, Gh. &amp; Ardelean, A. (1993) <i>Ecologie și protecția mediului</i>. Ed. Scaiul, București.</p> <p>11. Radu, I.T., Ezechil, L, (2006). <i>Didactica. Teoria instruirii</i>. Ed. Paralela 45. Pitești</p> <p>12. Sims Parr, C., Jones, T. &amp; Butler Songer, N., <i>CyberTracker in BioKIDS: Customization of a PDA-based scientific data collection application for inquiry learning</i>.  <a href="http://www.cybertracker.org/CTC_BioKids.html">http://www.cybertracker.org/CTC_BioKids.html</a></p> <p>13. Todor, V. &amp; colab. (1982) <i>Metodica predării biologiei la clasele V-VIII</i>. E.D.P. București.</p> <p>14. <a href="http://www.cybertracker.co.za/">http://www.cybertracker.co.za/</a></p> <p>15. <a href="http://school.discoveryeducation.com/lessonplans/programs/yosemite/">http://school.discoveryeducation.com/lessonplans/programs/yosemite/</a></p> <p>16. <a href="http://www.eowilson.org/index.php">http://www.eowilson.org/index.php</a></p> <p>17. <a href="http://www.deeproot.co.uk/plantbasemobile.html">http://www.deeproot.co.uk/plantbasemobile.html</a></p> <p>18. <a href="http://www.biology4kids.com/animale">http://www.biology4kids.com/animale</a></p> <p>19. <a href="http://www.biokids.umich.edu/research/biokids/">http://www.biokids.umich.edu/research/biokids/</a></p>
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## GEOGRAPHY

- **Non-Invasive Digital Study of Pre-Christian Antiquities**

<p>EN</p>	<p><b>BIBLIOGRAPHY:</b></p> <p>Bowman, M.J. 200 Place Names and the Antiquities of the Barony of Duhallow. British Library Cataloguing in Publication Press</p> <p>Bradley, R. 1998 The Significance of Monuments. Routledge, London.</p> <p>Cherry, S. 1990, The Finds from Fulachta Fiadh, in Buckley V.M. (ed) 1990, Burnt Offerings, International Contributions to Burnt Mound Archaeology Wordwell Ltd. Dublin.</p> <p>Cooney, G. 1994 Irish Prehistory. A social Perspective. Wordwell, Dublin.</p> <p>Hurley, M.F. 1987 Journal of the Cork Historical and Archaeological Society.</p> <p>Morton, W.H. 1965 The carboniferous stratigraphy of the area northwest of Newmarket, Co. Cork. Scientific Proceedings, Royal Dublin Society.</p> <p>O’Sullivan, R. 1995 Duhallow and Sliabh Luachra: An Archaeological Overlap</p> <p>Power, D 1988 Prehistoric Duhallow Seanchas Duthalla/Local Print.</p> <p>Shee Twohig, E. Ronayne, M. 1994 Past Perceptions: Prehistoric Archaeology of Southwest Ireland Cork University Press.</p> <p>ECTIE.</p> <p>Module 3. NonInvasive Study of PreChristian Antiquities.</p> <p>Stout, M. 1997. The Irish Ringfort. Four Courts Press, Dublin.</p> <p>Tilley, C. 1994 A Phenomenology of Landscape. Berg; London.</p> <p><a href="http://www.logainm.ie">www.logainm.ie</a></p> <p><a href="http://www.museum.ie">www.museum.ie</a></p>
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### Bibliography

<ul style="list-style-type: none"> <li>• <b><u>Digital Meteorological Snapshot of a Local Environment</u></b></li> <li>• <b><u>Istantanea digitale della situazione meteorologica locale</u></b></li> <li>• <b><u>Instantanee meteorologice digitale ale mediului local</u></b></li> </ul>	
EN	<p><b>BIBLIOGRAPHY:</b></p> <ul style="list-style-type: none"> <li>· <a href="http://www.met.ie">http://www.met.ie</a></li> <li>· <a href="http://www.kerryairport.ie">http://www.kerryairport.ie</a></li> <li>· Palm OS in the Elementary Classroom, Curriculum and Strategies. Jamie Kopera, Cathleen Norris, Eliot Soloway, Mike Curtis 2004</li> </ul>
IT	<p><b>BIBLIOGRAPHY:</b></p> <ul style="list-style-type: none"> <li>· <a href="http://www.met.ie">http://www.met.ie</a></li> <li>· <a href="http://www.kerryairport.ie">http://www.kerryairport.ie</a></li> <li>· Palm OS in the Elementary Classroom, Curriculum and Strategies. Jamie Kopera, Cathleen Norris, Eliot Soloway, Mike Curtis 2004</li> </ul>
RO	<p><b>BIBLIOGRAFIE</b></p> <ul style="list-style-type: none"> <li>• <a href="http://www.met.ie">http://www.met.ie</a></li> <li>• <a href="http://www.kerryairport.ie">http://www.kerryairport.ie</a></li> <li>• Palm OS in the Elementary Classroom, Curriculum and Strategies. Jamie Kopera, Cathleen Norris, Eliot Soloway, Mike Curtis 2004</li> </ul>
<ul style="list-style-type: none"> <li>• <b><u>Digital Mapping Study of our School Environment</u></b></li> </ul>	
EN	<p><b>BIBLIOGRAPHY:</b></p> <ul style="list-style-type: none"> <li>· Soloway, E., Becker, H., Norris, C.&amp; Topp, N. (2000, June.) Teachers and Technology: Easing the way.</li> <li>· Centre for Highly interactive Computing in education (HiCe), University of Michigan <a href="http://www.hice.org">www.hice.org</a></li> <li>· Integrating Handheld Technology with Field Investigation in Introductory Level GeoScience Courses. Laura A. Guerin. Earth Science, Penn State Delaware County. 25 Yearsly, Mill Road, Media PA 19063. <a href="mailto:uxg3@psu.edu">uxg3@psu.edu</a></li> <li>· Integrating Technology in the Classroom. Competing Visions of Handheld Computer use in the classroom. Wesley A. Fryer. <a href="http://www.wesfryer.com">www.wesfryer.com</a></li> <li><i>ECTIE. Module 1. Digital Mapping of Our School Environment.</i></li> <li>· Learning with eTwinning 2007. Central Support Service for eTwinning, European Schoolnet, Rue de Treves 61, B1040 Brussels, Belgium.</li> <li>· <a href="http://www.knowledgeireland.com">www.knowledgeireland.com</a> Featuring Tom Roche ECTIE, CoOrdinating Partner in the outLAB project</li> <li>· Handheld ComputersPower in the Palm of your Hand. Kathy Schrok, Administrator for Technology for the Nauset Public schools on Cape Cod. <a href="http://school.discovery.com/schrokguide">http://school.discovery.com/schrokguide</a></li> </ul>

## Bibliography

	<ul style="list-style-type: none"> <li>• <b><u>The use of GPS in Out-door Education as part of “Understanding and production of maps”</u></b></li> <li>• <b><u>Brugen af GPS i uderums-læring som del af “forståelse af og produktion af kort”</u></b></li> </ul>
EN	<ul style="list-style-type: none"> <li>• Integrating Handheld Technology with Field Investigation in Introductory Level Geo-Science Courses. Laura A. Guerin. Earth Science, Penn State Delaware County. 25 Yearsly, Mill Road, Media PA 19063. <a href="mailto:uxg3@psu.edu">uxg3@psu.edu</a></li> <li>· Integrating Technology in the Classroom. Competing Visions of Handheld Computer use in the classroom. Wesley A. Fryer. <a href="http://www.wesfryer.com">www.wesfryer.com</a></li> <li>· PEDACTIONE - a Comenius project. <a href="http://www.pedactione.com">www.pedactione.com</a></li> <li>· <a href="http://www.juicygeography.co.uk/gpsschool.htm">http://www.juicygeography.co.uk/gpsschool.htm</a></li> <li>· <a href="http://education.usgs.gov/common/lessons/gps.html">http://education.usgs.gov/common/lessons/gps.html</a></li> </ul>
DK	<ul style="list-style-type: none"> <li>· Integrating Handheld Technology with Field Investigation in Introductory Level Geo-Science Courses. Laura A. Guerin. Earth Science, Penn State Delaware County. 25 Yearsly, Mill Road, Media PA 19063. <a href="mailto:uxg3@psu.edu">uxg3@psu.edu</a></li> <li>· Integrating Technology in the Classroom. Competing Visions of Handheld Computer use in the classroom. Wesley A. Fryer. <a href="http://www.wesfryer.com">www.wesfryer.com</a></li> <li>· PEDACTIONE - a Comenius project. <a href="http://www.pedactione.com">www.pedactione.com</a></li> <li>· <a href="http://www.juicygeography.co.uk/gpsschool.htm">http://www.juicygeography.co.uk/gpsschool.htm</a></li> <li>· <a href="http://education.usgs.gov/common/lessons/gps.html">http://education.usgs.gov/common/lessons/gps.html</a></li> </ul>
	<ul style="list-style-type: none"> <li>• <b><u>The use of ICT as Instrument for Documentation in Environmental Education at the Outdoor Learning Arena</u></b></li> <li>• <b><u>Brug af IKT som redskab for dokumentation i forbindelse med miljøundervisning i uderummet.</u></b></li> </ul>
EN	<ul style="list-style-type: none"> <li>· Integrating Handheld Technology with Field Investigation in Introductory Level Geo-Science Courses. Laura A. Guerin. Earth Science, Penn State Delaware County. 25 Yearsly, Mill Road, Media PA 19063. <a href="mailto:uxg3@psu.edu">uxg3@psu.edu</a></li> <li>· Integrating Technology in the Classroom. Competing Visions of Handheld Computer use in the classroom. Wesley A. Fryer. <a href="http://www.wesfryer.com">www.wesfryer.com</a></li> <li>· <a href="http://portal.unesco.org/education/en/ev.php-URL_ID=41557&amp;URL_DO=DO_TOPIC&amp;URL_SECTION=201.html">http://portal.unesco.org/education/en/ev.php-URL_ID=41557&amp;URL_DO=DO_TOPIC&amp;URL_SECTION=201.html</a></li> </ul>
DK	<ul style="list-style-type: none"> <li>· Integrating Handheld Technology with Field Investigation in Introductory Level Geo-Science Courses. Laura A. Guerin. Earth Science, Penn State Delaware County. 25 Yearsly, Mill Road, Media PA 19063. <a href="mailto:uxg3@psu.edu">uxg3@psu.edu</a></li> <li>· Integrating Technology in the Classroom. Competing Visions of Handheld Computer use in the classroom. Wesley A. Fryer. <a href="http://www.wesfryer.com">www.wesfryer.com</a></li> </ul>

### Bibliography

	<p>· <a href="http://portal.unesco.org/education/en/ev.php-URL_ID=41557&amp;URL_DO=DO_TOPIC&amp;URL_SECTION=201.Html">http://portal.unesco.org/education/en/ev.php-URL_ID=41557&amp;URL_DO=DO_TOPIC&amp;URL_SECTION=201.Html</a></p>
	<ul style="list-style-type: none"> <li>• <b><u>The use of PDA's at excursions in combination with other ICT equipment</u></b></li> <li>• <b><u>Brugen af PDA'er på ekskursioner i kombination med andet IKT-udstyr.</u></b></li> </ul>
<b>EN</b>	<p>· Integrating Handheld Technology with Field Investigation in Introductory Level Geo-Science Courses. Laura A. Guerin. Earth Science, Penn State Delaware County. 25 Yearsly, Mill Road, Media PA 19063. <a href="mailto:uxg3@psu.edu">uxg3@psu.edu</a></p> <p>· Integrating Technology in the Classroom. Competing Visions of Handheld Computer use in the classroom. Wesley A. Fryer. <a href="http://www.wesfryer.com">www.wesfryer.com</a></p> <p>· <a href="http://www.pedactice.com">www.pedactice.com</a> a Comenius.project</p> <p>· Handheld Computers- Power in the Palm of your Hand. Kathy Schrok, Administrator for Technology for the Nauset Public schools on Cape Cod. <a href="http://school.discovery.com/schrokguide">http://school.discovery.com/schrokguide</a></p>
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