

Vincenzo Balzani, Margherita Venturi

## **Energia, risorse, ambiente**

# **Fonti iconografiche**

### **Capitolo 1**

Apertura shutterstock/MarcelClemens  
Figure 1.1 e 1.2 NASA  
Figura 1.3 SPL/ROYAL ASTRONOMICAL SOCIETY  
Figura 1.4 shutterstock/Gianluca D.Muscelli  
Figura 1.5 shutterstock/djgis  
Figura 1.6 shutterstock/akiyoko p. 8 (Copernico) SPL/SHEILA TERRY

### **Parte A**

Apertura shutterstock/Pincasso

### **Capitolo 2**

Apertura shutterstock/ValeStock  
Figura 2.2 shutterstock/Marcin Balcerzak  
Figura 2.3 (A) shutterstock/KIM NGUYEN  
Figura 2.3 (B) shutterstock/Fer Gregory  
Figura 2.4 (cascata) shutterstock/oorka  
Figura 2.4 (pullman) shutterstock/Gilles Lougassi  
Figura 2.5 shutterstock/ampyang  
Figura 2.6 shutterstock/Action Sports Photography  
Figura 2.7 shutterstock/kavring  
Figura 2.8 shutterstock/gielmichal  
Figura 2.9 shutterstock/Grigvovan  
Figura 2.10 shutterstock/Bobkeenan Photography  
Tabella 2.1 (catena di montaggio) shutterstock/bibiphoto  
Tabella 2.1 (colata) shutterstock/zhangyang13576997233  
Tabella 2.1 (fabbrica di cemento) shutterstock/fsghhc  
Tabella 2.1 (cartiera) shutterstock/Moreno Soppelsa

### **Capitolo 3**

Apertura shutterstock/Thaiview  
Figura 3.2 SPL/SHEILA TERRY  
Figura 3.3 SPL

Figura 3.4 BIGSTOCK/mybaitshop  
Figura 3.5 SPL/RIA NOVOSTI  
Figura 3.6 NASA  
Figura p. 26 SPL/RIA NOVOSTI  
Figura 3.7 SPL/NEW YORK PUBLIC LIBRARY/HUMANITIES & SOCIAL SCIENCES LIBRARY  
Figura 3.8 SPL/US DEPARTMENT OF ENERGY  
Figura 3.9 SPL/RIA NOVOSTI  
Figura p. 31 (distintivo Apollo 11) shutterstock/Jon Le-Bon  
Figura p. 31 (Michael Faraday) shutterstock/Georgios Kollidas

### **Capitolo 4**

Apertura shutterstock/Worldpics  
Figura 4.2 SPL/DAVID NUNUK  
Tabella 4.3 shutterstock/gualtiero boffi  
Tabella 4.4 shutterstock/Petr Kopka  
Tabella 4.5 BIGSTOCK/DallasPhotography  
Figura 4.3 shutterstock/Ian Tragen  
Figura 4.4 shutterstock/Diego Cervo  
Figura 4.5 shutterstock/AlexanderZam  
Figura 4.6 shutterstock/Markus Gann  
Figura p. 40 SPL/GEOEYE  
Figura 4.7 iStock/prill  
Figura 4.8 iStock/Dougall\_Photography  
Figura 4.9 (A) shutterstock/mirormere  
Figura 4.10 BIGSTOCK/pancaketom  
Figura 4.11 (A) shutterstock/egd  
Figura 4.13 SPL/RIA NOVOSTI  
Figura 4.14 shutterstock/tchara

### **Capitolo 5**

Apertura shutterstock/Jason Winter  
Figura 5.1 SPL/JIM EDDS  
Figura p. 52 (Nixon) shutterstock/JStone  
Figura p. 53 (Clinton) shutterstock/stocklight  
Figura p. 53 (George W. Bush) shutterstock/Northfoto  
Figura p. 53 (Obama) shutterstock/Featureflash

Figura 5.4 shutterstock/Martin Capek  
Figura 5.5 SPL/PATRICK LANDMANN  
Figura p. 58 (idroelettrica)  
shutterstock/Roman Rybaleov  
Figura p. 59 (eolica)  
shutterstock/svetok30  
Figura p. 59 (pannello solare)  
shutterstock/Otmar Smit  
Figura p. 59 (specchi solari)  
shutterstock/paulrommer  
Figura p. 61 (fotovoltaico)  
shutterstock/pedrosala  
Figura p. 61 (biocombustibili)  
iStock/volschenk  
Figura 5.8 shutterstock/auremar  
Figura p. 66 (pompa in bottiglia d'acqua)  
shutterstock/Slavoljub Pantelic  
Figura p. 66 (H<sub>2</sub>O) shutterstock/Matthias Pahl  
Figura p. 68 (Solar Impulse)  
shutterstock/lev radin

## **Parte B**

Apertura shutterstock/StockHouse

## **Capitolo 6**

Apertura shutterstock/Valeri Potapova  
Figura 6.2 SPL  
Figura 6.3 BIGSTOCK/Thufir  
Figura 6.4 shutterstock/Designua  
Figura p. 76 (troposfera) shutterstock/Lev Kropotov  
Figura p. 76 (stratosfera)  
shutterstock/Armin Rose  
Figura p. 76 (mesosfera)  
shutterstock/Lonely  
Figura p. 77 (termosfera)  
shutterstock/iurii  
Figura 6.5 shutterstock/SurangaSL  
Figura p. 77 (esosfera)  
shutterstock/Nikonaft  
Figura 6.7 (A) SPL/DIRK WIERSMA  
Figura 6.7 (C) Joe Budd photo  
Figura 6.7 (D) SPL

## **Capitolo 7**

Apertura shutterstock/Mopic  
Figura p. 87 shutterstock/Pavels Arsenjans

Figura 7.5 shutterstock/StanOd  
Figura 7.6 BIGSTOCK/Irabel8  
Figura 7.7 shutterstock/Kosin Sukhum  
Figura p. 93 (orme) shutterstock/STILLFX

## **Capitolo 8**

Apertura shutterstock/Netfalls - Remy Musser  
Figura 8.2 (complesso antenna)  
Wikimedia/Aegon  
Figura 8.3 shutterstock/Sadik Gulec  
Figura p. 98 (guidare)  
shutterstock/Minerva Studio  
Figura p. 98 (mangiare) shutterstock/Rido  
Figura p. 98 (camminare)  
shutterstock/ChameleonsEye  
Figura p. 98 (correre)  
shutterstock/Monkey Business Images  
Figura 8.4 shutterstock/JIL Photo  
Figura 8.5 shutterstock/stockshoppe  
Figura 8.6 shutterstock/Ruth Black  
Figura 8.7 shutterstock/branislavpudar  
Figura p. 104 (reti vuote) Marka  
Figura 8.8 shutterstock/Vladislav Gajic  
Tabella 8.3 (mais) shutterstock/jose marques lopes  
Tabella 8.3 (salumi) shutterstock/vsl  
Tabella 8.3 (formaggi)  
shutterstock/Krzysztof Slusarczyk  
Tabella 8.3 (latte)  
shutterstock/Gayvoronskaya\_Yana  
Figura 8.10 iStock/fcafotodigital  
Figura 8.11 BIGSTOCK/draghicich  
Figura 8.12 shutterstock/bikeriderlondon  
Figura 8.13 shutterstock/HelleM  
Figura p. 112 shutterstock/kurhan

## **Capitolo 9**

Apertura iStock/jirijura  
Figura p. 114 shutterstock/VladisChern  
Figura 9.2 shutterstock/Ronsmith  
Figura 9.9 shutterstock/Tarasyuk Igor  
Figura 9.10 shutterstock/pcrucciatti  
Figura 9.12 shutterstock/Kekyalaynen  
Tabella 9.2 (hamburger) shutterstock/neil langan  
Tabella 9.2 (pane)  
shutterstock/AnjelikaGr

Tabella 9.2 (pomodorini)  
shutterstock/Francesco83  
Tabella 9.2 (scarpe)  
shutterstock/InnaFelker  
Tabella 9.2 (lattine) shutterstock/vesna  
cvorovic  
Tabella 9.2 (fotocopiatrice)  
shutterstock/Arve Bettum  
Figura 9.13 BIGSTOCK/antonv  
Figura p. 128 shutterstock/ericlefrancais

## Capitolo 10

Apertura shutterstock/Aksenenko Olga  
Figura 10.2 shutterstock/Tomas Pavelka  
Tabella 10.2 (ferro) shutterstock/Byjeng  
Tabella 10.2 (rame)  
shutterstock/zhangyang13576997233  
Tabella 10.2 (titanio)  
shutterstock/pedrosala  
Tabella 10.2 (silicio) shutterstock/neijia  
Figura 10.3 shutterstock/Raimundas  
Figura 10.4 Reuters/Contrasto  
Figura 10.5 shutterstock/Huguette Roe  
Figura p. 135 (platino)  
BIGSTOCK/Baloncici  
Figura p. 136 (indio)  
shutterstock/Daboost  
Figura p. 136 (europio)  
shutterstock/f9photos  
Figura p. 136 (gandolino) SPL/GEOFF  
TOMPKINSON  
Figura p. 136 (disprozio)  
shutterstock/Jose Ignacio Soto  
Figura 10.6 SPL/US ARMY  
Figura 10.7 SPL/ROSENFELD IMAGES LTD  
Figura 10.8 shutterstock/imging  
Figura 10.9 SPL/ALFRED PASIEKA  
Figura p. 140 (scambiatore di calore)  
SPL/MARK WILLIAMSON  
Figura p. 140 (shuttle) SPL/BABAK  
TAFRESHI, TWAN

## Parte C

Apertura shutterstock/Hung Chung Chih

## Capitolo 11

Apertura shutterstock/Milena Moiola  
Figura 11.3 shutterstock/Brian Balster

Figura p. 149 (fertilizzante)  
shutterstock/egilshay  
Figura p. 149 (bomba) shutterstock/Fer  
Gregory  
Tabella 11.1 shutterstock/Leonid Ikan  
Figura 11.9 SPL/LIBRARY OF CONGRESS  
Figura 11.10 (A) shutterstock/Svetlana  
Foote  
Figura 11.10 (B) shutterstock/Andresr  
Figura 11.11 International Rice Research  
Institute (IRRI)  
Figura p. 161 (barriera corallina)  
shutterstock/Richard Whitcombe  
Figura p. 161 (tigre)  
shutterstock/LMPphoto

## Capitolo 12

Apertura shutterstock/stoonn  
Figura p. 164 SPL/BRITISH ANTARCTIC  
SURVEY  
Figura 12.4 SPL/US GEOLOGICAL SURVEY  
Figura p. 167 shutterstock/Arnon Polin  
Figura p. 168 (veduta aerea)  
shutterstock/Harvepino  
Figura p. 168 (visione da terra)  
shutterstock/Todd Shoemake

## Capitolo 13

Apertura shutterstock/axz700  
Figura 13.1 SPL/PLANETOBSERVER  
Figura 13.2 shutterstock/Kletr  
Figura 13.4 shutterstock/kanvag  
Figura 13.5 shutterstock/Maksimilian  
Figura p. 175 SPL/THOMAS DEERINCK,  
NCMIR  
Figura 13.9 (B) SPL/NASA  
Figura 13.10 (A) BIGSTOCK/Alicar  
Figura 13.10 (B) iStock/julof90  
Figura 13.11 shutterstock/Narongsak  
Nagadhana  
Figura 13.12 (A) shutterstock/TonyB.  
Figura 13.12 (B) shutterstock/Imageman  
Figura p. 184 (edificio dismesso)  
shutterstock/Zorandim  
Figura p. 184 (ragazze con mascherine)  
shutterstock/testing  
Figura p. 184 (tubi di scarico)  
shutterstock/wonderisland

## Capitolo 14

Apertura shutterstock/Imagineerinx  
Figura 14.1 SPL  
Figura 14.5 SPL/PUBLIC HEALTH ENGLAND  
Figura 14.6 SPL/PROF. PETER FOWLER  
Figura 14.7 SPL/LOS ALAMOS NATIONAL LABORATORY  
Figura 14.10 SPL/RIA NOVOSTI  
Figura 14.11 (A) SPL  
Figura 14.11 (B) SPL  
Figura 14.12 iStock/parisvas  
Figura 14.13 SPL/US DEPARTMENT OF AGRICULTURE/KEN HAMMOND  
Figura 14.14 (A) shutterstock/Mliberra  
Figura 14.14 (B) shutterstock/Ttatty  
Figura p. 202 SPL/US DEPARTMENT OF ENERGY  
Figura 14.15 SPL/US DEPARTMENT OF ENERGY  
Figura p. 204 (fossile di quadrupede) shutterstock/Snowhill  
Figura p. 204 (conchiglie fossili) shutterstock/kerstiny  
Figura p. 204 (sarcofago di Chernobyl) shutterstock/tinta

## Parte D

Apertura shutterstock/Zurijeta

## Capitolo 15

Apertura shutterstock/TijanaM  
Figura 15.5 shutterstock/Cody Wheeler  
Figura 15.6 SPL/GEORGE POST  
Figura 15.7 (A) shutterstock/Sarah2  
Figura 15.7 (B) shutterstock/Candace Hartley  
Figure 15.8 e 15.9 SPL/NASA  
Figura 15.10 shutterstock/TFoxFoto  
Figura p. 219 (orto) iStock/youngvet  
Figura p. 219 (fiume) shutterstock/Nfoto

## Capitolo 16

Apertura shutterstock/Denis Vrublevski  
Figura 16.1 (A) shutterstock/peapop  
Figura 16.1 (B) shutterstock/Adisa  
Figura 16.1 (C) shutterstock/Ditty\_about\_summer  
Figura 16.1 (D) shutterstock/Goodluz

Figura 16.3 shutterstock/paul Prescott  
Figura 16.5 SPL/ASHLEY COOPER, VISUALS UNLIMITED  
Figura 16.6 shutterstock/Wichy  
Figura 16.7 SPL/LIBRARY OF CONGRESS  
Figura 16.8 SPL/CHRISTIAN DARKIN  
Figura p. 233 shutterstock/Radu Bercan