

A List of Books and Articles on the Subject of Science and Islam

The **Science, Religion, and Ethics Program** of the Wisconsin Initiative for Science Literacy acknowledges with gratitude the advice of University of Sharjah physics professor Nidhal Guessoum, University of Cincinnati chemistry professor William B. Jensen, UW-Madison emeritus history of science professor David C. Lindberg, UW-Madison chemistry librarian Sharon Mulvey, Case Western Reserve University history of science professor Alan J. Rocke, UW-Madison history of science Michael H. Shank, UW-Madison graduate student Scott Trigg, and UW-Madison undergraduate intern Tierra M. Gilbert in preparing this list of books and articles

Selected books including Professor Guessoum's latest book and books about Muslim Nobel Laureates in Chemistry and in Physics as well as articles from *Science* and *Nature* are on display in a closed case near room 1145 of the Chemistry Building (first floor of the Shain Research Tower).

Books (categorized by subject)

General

Encyclopedia of the history of Arabic science (3 vols.), ed. R. Rashed. London: Routledge, 1996.
Library: Memorial Reference
Call Number: Q127 A5 E53 1996

Islam, philosophy and science : Four [i.e. five] lectures organized by UNESCO . Paris: UNESCO Press, 1981.
Library: Memorial; Temporarily Shelved at College Library Reserve
Call Number: BP165 I752 1981

Averroës. ***The attitude of Islam towards science and philosophy*** : A translation of Ibn Rushd's (Averroës) famous treatise *Faslul-al-Maqal*. Trans. Hamid Naseem Rafiabadi and Aadil Amin Kak. New Delhi: Sarup, 2003.
Library: Memorial; Temporarily Shelved at College Library Reserve
Call Number: B749 K5813 2003

Gutas, Dimitri. ***Greek thought, Arabic culture : the Graeco-Arabic translation movement in Baghdad and early Abbāsid society (2nd-4th/8th-10th centuries)***. London: Routledge, 1998.
Library: Memorial
Call Number: DS36.82 G7 G88 1998

Hogendijk, J. P., and A. I. Sabra. ***The enterprise of science in Islam : New perspectives***. Dibner institute studies in the history of science and technology. Cambridge, Mass: MIT Press, 2003.
Library: Memorial
Call Number: Q124.97 E57 2003

Hourani, George Fadlo, ed. ***Essays on Islamic philosophy and science***. (Studies in Islamic philosophy and science.) 1st ed. Albany: State University of New York Press, 1975.
Library: Memorial; Temporarily Shelved at College Library Reserve
Call Number: B741 H68

Lindberg, David C. ***The beginnings of western science : The European scientific tradition in philosophical, religious, and institutional context, 600 B.C. to A.D. 1450.*** Chicago: University of Chicago Press, 1992.

Library: Memorial, College
Call Number: Q124.95 L55 1992

Lindberg, David C. and Michael H. Shank (eds.). ***Medieval science*** (vol. 2 of *The Cambridge History of Science*). New York : Cambridge University Press, 2003.

Maddison, Francis Romeril. ***Science, tools & magic.*** (Nasser D. Khalili collection of Islamic art ; v.12.) London : The Nour Foundation in association with Azimuth Editions and Oxford University Press, 1997.
Library: Special Coll. (Memorial Lib.): Reference Oversize, Non-circ
Call Number: Q185 M24 1997

Nasr, Seyyed Hossein. ***Science and civilization in Islam*** [electronic resource] / ACLS humanities E-book. Chicago: ABC International Group; Distributed by KAZI Publications, 2001.
Library: (EResource)

Turner, Howard R. ***Science in medieval Islam : An illustrated introduction*** / 1st ed. Austin: University of Texas Press, 1997.

Library: Memorial
Call Number: Q127 I742 T78 1997

Chemistry, including Alchemy and Matter Theory

Dhanani, Alnoor. ***The Physical theory of Kalām : atoms, space, and void in Basrian Muḥtazilī cosmology*** / Leiden ; New York : E.J. Brill, 1994.

Library: Memorial
Call Number: BP166.23 D47 1994

Haq, Syed Nomanul, ed. ***Names, Natures and Things: The Alchemist Jabir ibn Hayyan and his Kitab al-Ahjar (Book of Stones).*** Kluwer : Dordrecht, 1994.

Library: Memorial
Call Number: Q175 B73 v.158

Holmyard, E. J., ed. ***Book of Knowledge Acquired Concerning the Cultivation of Gold by Abu 'l-Qasim Muhammad ibn Ahmad Al-'Iraqi.*** Paris : Geuthner, 1923.

Kraus, Paul. ***Jābir Ibn Ḥayyān : contribution à l'histoire des idées scientifiques dans l'Islam : Jābir et la science grecque.*** Paris : Les Belles Lettres, 1986.

Library: Memorial
Call Number: QD25 J55 1986

Lory, P., (ed.), Jabir ibn Hayyan. ***Dix traités d'alchimie : les dix premiers traités du Livre des soixante-dix.*** Paris : Sindbad, 1983.

Madelung, T. A. W., Hofmeier, T., eds. ***Book of the Explanation of the Symbols = Kitāb Hall ar-Rumuz*** (Corpus Alchemicum Arabicum vol.1.) / by Muhammad ibn Umail. Living Human Heritage Publications: Zurich, 2003.

Moran, Bruce T. ***Distilling knowledge : Alchemy, chemistry, and the scientific revolution.*** (New histories of science, technology, and medicine.) Cambridge, Mass. : Harvard University Press, 2005.

Library: Memorial
Call Number: QD15 M67 2005

Newman, William Royall. ***Atoms and alchemy : Chymistry and the experimental origins of the scientific revolution.*** Chicago : University of Chicago Press, 2006.

Library: Memorial

Call Number: Q125 .N484 2006

Newman, William Royall. ***Promethean ambitions : Alchemy and the quest to perfect nature.*** Chicago : University of Chicago Press, 2004.

Library: Memorial

Call Number: Q125.2 N49 2004

Ruska, Julius. ***Arabische Alchemisten.*** (2 Vols.) Heidelberg : C. Winter, 1921.

Library: Memorial

Call Number: LNI R89 A

Ruska, Julius. ***Tabula Smaragdina.*** Heidelberg : C. Winter, 1926.

Library: Memorial

Call Number: QD13 R8

Ruska, Julius. ***Das Buch der Alaune und Salze: Ein Grundwerk der spätlateinischen Alchemie, Verlag Chemie.*** Berlin : Verlag Chemie, 1935.

Library: Ebling

Call number: WZ 290 R278b 1935

Sezgin, Fuat. ***Geschichte des Arabischen Schrifttums*** (Bd. IV, *Alchemie, Chemie, Botanik, Agrikultur, Bis ca. 430 H*). Brill : Leiden, 1971.

Library: Memorial

Call Number: Z7052 S44

Cosmology and Geography

Edson, Evelyn and Emilie Savage-Smith. ***Medieval views of the Cosmos.*** Oxford : Bodleian Library, 2004.

Library: Memorial

Call Number: BD495.5 E37 2004

Harley, J.B. and David Woodward, eds. ***The History of cartography*** (6 vols.). Chicago : University of Chicago Press, 1987-1994. (v. 2, bk. 1. Cartography in the traditional Islamic and South Asian societies.)

Library: Geography

Call Number: GA201 H53 1987

King, David A. ***World-maps for finding the direction and distance to Mecca : innovation and tradition in Islamic science.*** London : Al-Furqān Islamic Heritage Foundation ; Leiden ; Boston : Brill, 1999.

Library: Geography

Call Number: GA1263.6 K56 1999

Astronomy and Optics

King, David A. ***Astronomy in the service of Islam.*** Aldershot, Hampshire, Great Britain ; Brookfield, Vt., USA : Variorum, 1993.

Library: Memorial

Call Number: QB23 K52 1993

Sabra, A. I., ed. ***The optics of Ibn al-Haytham: Books I-III: on direct vision*** / translated with introduction and commentary. London: Warburg Institute, University of London, 1989.
Library: Memorial
Call Number: QC353 A4513 1989

Saliba, George. ***Islamic science and the making of the European renaissance***. Cambridge, Mass. : MIT Press, 2007.
Library: Memorial
Call Number: Q127 I742 S35 2007

Sayili, Aydin. ***The observatory in Islam***. New York : Arno Press, 1981.
Library: Memorial
Call Number: QB82 I8 S28 1981

Ṭūsī, Naṣīr al-Dīn. ***Tadhkirah fī ʿilm al-hayʾah. English & Arabic/ Naṣīr al-Dīn al-Ṭūsī's Memoir on astronomy*** / [commentary by] F.Jaml Ragep. New York : Springer-Verlag, 1993.
Library: Memorial
Call Number: QB23 T8713 1993

Mathematics

Rāshid, Rushdī. ***The development of Arabic mathematics : between arithmetic and algebra*** / translated by A. F. W. Armstrong. Dordrecht ; Boston : Kluwer Academic, 1994.
Library: Memorial
Call Number: Q175 B73 v.156

Sesiano, Jacques. ***Books IV to VII of Diophantus' Arithmetica in the Arabic translation attributed to Qusṭā ibn Lūqā***. New York; Heidelberg : Springer-Verlag, 1982.
Library: Memorial
Call Number: QA22 D5623 S47 1982

Health and Society

Greppin, John A.C., Emilie Savage-Smith, and John L. Gueriguian, eds. ***The diffusion of Greco-Roman medicine into the Middle East and the Caucasus***. Delmar, N.Y. : Caravan Books, 1999.
Library: Ebling
Call Number: WZ 70 JA2 D5g 1999

Musallam, Basim. ***Sex and society in Islam : birth control before the nineteenth century***. New York : Cambridge University Press, 1983.
Library: Memorial
Call Number: HQ 766.5 I742 M87 1983

Rahman, Fazlur. ***Health and medicine in the Islamic tradition : Change and identity***. (Health/medicine and the faith traditions.) New York: Crossroad, 1987.
Library: Memorial
Call Number: BP166.72 R35 1987

Technology

Al-Hassam, Ahmad and Donald R. Hill. ***Islamic Technology: An Illustrated History***. Cambridge: Cambridge University Press, 1986.
Library: Memorial
Call Number: T27.3 I75 H37 1986

Ibn Shākir, Muḥammad ibn Mūsá. *Kitāb al-ḥiyal/The book of ingenious devices (Kitāb al-ḥiyal)* / translated and annotated by Donald R. Hill. Dordrecht: Boston : D. Reidel Pub. Co., 1979.
Library: Memorial
Call Number: TJ144 M8313

Science, philosophy, and religion

Edis, Taner. *An illusion of harmony : Science and religion in Islam*. Amherst, N.Y: Prometheus Books, 2007.

Guessoum, Nidhal. *Réconcilier l'Islam et la science moderne : L'esprit d'averroès*. (Science et quête de sens.) Paris: Presses de la Renaissance, 2009.

Natural philosophy in Islam

Adamson, Peter and Richard C. Taylor. *The Cambridge companion to Arabic philosophy*. New York : Cambridge University Press, 2005.
Library: Memorial
Call Number: B741 C36 2005

Fakhry, Majid. *A History of Islamic Philosophy*, 3rd ed. London: Longman, 3rd ed., 2004.
Library: Memorial
Call Number: B741 F23 2004

Goodman, Lenn E. *Avicenna*. New York: Routledge, 1992.
Library: Memorial
Call Number: B751 Z7 G66 1992

Leaman, Oliver. *An introduction to classical Islamic philosophy*, 2nd ed. New York : Cambridge University Press, 2002.
Library: Memorial
Call Number: B741 L43 2002

Leaman, Oliver. *Averroes and His Philosophy*, rev. ed. Oxford, UK: Clarendon Press, 1998.
Library: Memorial
Call Number: B749.27 L43 1998

McGinnis, Jon and David C. Reisman, eds. and trans. *Classical Arabic philosophy; an anthology of sources*. Indianapolis : Hackett Publishing Co. 2007

Journal Articles (alphabetical by author)

Ambition & neglect: Science in the Muslim world.

Nature, (2006) 444, (November 2): 19

Islam and scientific fundamentalism.

NPQ: New Perspectives Quarterly, (1993) 10, (3) (Summer93): 61

Time to unite Islam and science.

Nature, (2003) 422, (6928) (Mar 13): 99

Ahmad, Imad A. The science of knowing God: Astronomy in the golden era of Islam.

Mercury (San Francisco, Calif.), (1995) 24, (March/April): 28-30

Al-Hayani, Fatima. Islam and science: Contradiction or concordance.

Zygon: Journal of Religion & Science, (2005) 40, (3) (09): 565-76

Ali, Nadeem, and Edgar Pearlstein. Compatibility of Islam and science.

Nature, (1997) 387, (May 29): 448

Anees, Munawar Ahmad. Islam and scientific fundamentalism.

New Perspectives Quarterly, (2004) 21, (4) (Fall): 134

Anees, Munawar Ahmad. Islam and scientific fundamentalism.

New Perspectives Quarterly, (2002) 19, (1) (Winter): 96

Bakar, Osman. Gülen on religion and science: A theological perspective.

Muslim World, (2005) 95, (3) (07): 359-72

Ball, Philip. The zenith of Islamic science.

Nature, (2006) 440, (April 20): 997

Bohannon, John. Picking a path among the fatwas.

Science, (2006) 313, (5785) (07/21): 292-3

Bond, Michael. From the Koran to quantum physics.

New Scientist, (2005) 186, (June 25): 52-3

Bond, Michael. Where progress is a lost cause.

New Scientist, (2003) 178, (April 26): 27

Covington, Richard. Rediscovering Arabic science.

Saudi Aramco World, (2007) 58, (3),

<http://www.saudiaramcoworld.com/issue/200703/rediscovering.arabic.science.htm>

De Young, Gregg. Should science be limited? Some modern Islamic perspectives.

The Monist, (1996) 79, (2) (Apr): 280

Dean, Cornelia. Islamic creationist and a book sent round the world.

New York Times (Late New York Edition), (2007) (July 17): F3

Guessoum, Nidhal. The Qur'an, science, and the (related) contemporary Muslim discourse.

Zygon, (2008) 43, (2) (Jun): 411

- Hakim, Toufic, Ismail Demirkan, and Aksar Beketov. Islam, science, and free and open inquiry.
Physics Today, (2008) 61, (1) (January): 10-4
- Hameed, Salman. Bracing for Islamic creationism.
Science, (2008) 322, (December 12): 1637-8
- Hoodbhoy, Pervez. Islam and science - unhappy bedfellows.
Global Agenda, (2006) 4, (1) (Jan): 216
- Hoodbhoy, Pervez Amirali. Science and the Islamic world--the quest for rapprochement.
Physics Today, (2007) 60, (8) (August): 49-55
- Kabraji, Sheheryar. Progress requires scientific thinking at all levels.
Nature, (2004) 432, (December 23-30): 949
- Kalin, Ibrahim. Islam and science.
Parabola, (2008) 33, (3) (Fall): 66
- King, David A. Science in the service of religion: The case of Islam.
Impact of Science on Society, (1990) 40, (3): 245
- Koshul, Basit Bilal. From "religion and science" to "Kalam and science".
Dialog, (2007) 46, (3) (Fall): 235
- Masood, Ehsan. Come the revolution.
New Scientist, (2003) 179, (August 16): 38-41
- Masood, Ehsan. An unholy alliance.
New Scientist, (2003) 180, (November 1): 21
- Masood, Ehsan. What the history books left out.
New Scientist, (2006) 190, (April 1): 53
- Murphy, Jane H. Rethinking history for a new Islamic science.
Science, (2008) 320, (May 16): 876
- Ommaya, Ayub Khan. Rise and decline of science in the Islamic world.
The World & I, (2001) 16, (7) (Jul): 148
- Overbye, Dennis. How Islam won, and lost, the lead in science.
New York Times (Late New York Edition), (2001) (October 30): F1, F5
- Paz, Octavio. The most reactionary force today.
New Perspectives Quarterly, (2002) 19, (1) (Winter): 83
- Pickstone, John. Islamic inventiveness.
Science, (2006) 313, (July 7): 47
- Pitock, Todd. Science and Islam.
Discover, (2007) 28, (7) (July): 36-45
- Ravetz, J. R. Prospects for an Islamic science.
Futures, (1991) 23, (3) (4): 262-72

Sardar, Ziauddin. Beyond the troubled relationship.
Nature, (2007) 448, (7150) (07/12): 131-3

Sardar, Ziauddin. How to take Islam back to reason.
New Statesman, (2004) 17, (801) (Apr 5): 28

Sardar, Ziauddin. Islam and the future.
Futures, (1991) 23, (3) (4): 223-30

Sardar, Ziauddin. Weird science.
New Statesman, (2008) 137, (4910) (08/25): 26-7

Serageldin, Ismail. Science in Muslim countries.
Science, (2008) 321, (August 8): 745

Tolson, Jay. Islam vs. science.
U.S. News & World Report, (2007) 143, (8) (09/10): 48-9

Wersal, Lisa. Islam and environmental ethics: Tradition responds to contemporary challenges.
Zygon, (1995) 30, (3) (Sep): 451