

Library Subject Guide – Physical Sciences – Physics & Chemistry

UOW Malaysia KDU Library collections can be found via Library catalogue either in print or electronic.

1) Quick Guide

1.1 Call number

Call numbers for Physical Sciences – Physics & Chemistry (QC1-QD999):

Call number	Subject
Q1-390	Science (General)
QC1-999	Physics
QD1-999	Chemistry

1.2 Location of the Call Number

The above call number of books of subject Physics and Chemistry listed in UOWM KDU Library. The books are mainly located at:

- Open Shelf (Damansara Jaya Library)
- Open Shelf (Teo Soo Pin Library, Glenmarie – Second Floor)

1.2.1 Search and locate Library materials

User can search the titles by using our webPAC (Web Public Access Catalogue) as a tool to locate what is in the Library. You search a catalogue to see what a library has and to know where to locate the item required.

Access to our webPAC with the link below:

<http://webpac.kdu.edu.my/search/query?theme=kdu>

Users can also use Advance Search if they have the information of the “Title” and “Author” of the book, or either one.

<http://webpac.kdu.edu.my/search/advanced?theme=kdu>

1.3 Search Guides

The following links will assist you to access the several guides on how to use:

- Web Public Access Catalogue

<https://library.uowmkdu.edu.my/index.php/how-to-use-online-catalogue>




- e-Database search tips
<https://library.uowmkdu.edu.my/index.php/the-e-databases-search-tips>
- Referencing and Citation
<https://library.uowmkdu.edu.my/index.php/referencing>
- Subject guide
<https://library.uowmkdu.edu.my/index.php/subject-guides>

2) Reference

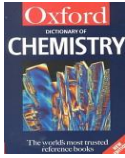
Reference materials such as dictionaries, encyclopaedias, and handbook can only be use inside the library.

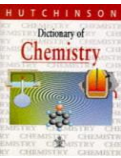




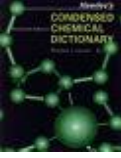

2.1 Dictionaries

2.1.1 Physics

Image	Title
	A dictionary of physics / by Alan Isaacs <i>Call number: QC5 Dic 2000</i>
 No image available	A Concise dictionary of physics / by Oxford University Press <i>Call number: QC5 Con 1990</i>
 No image available	The Facts on File dictionary of physics / edited by John Daintith ; consultant editors, Eric Deeson, J.W. Warren <i>Call number: QC5 Fac 1988</i>

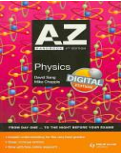
2.1.2 Chemistry

Image	Title
	A dictionary of chemistry / edited by John Daintith. <i>Call number: QD5 Dic 2000</i>




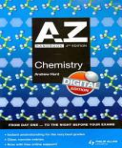
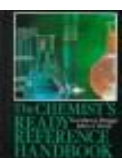
	<p>Hutchinson dictionary of chemistry.</p> <p><i>Call number: QD5 Dic 1997</i></p>
 <p>No image available</p>	<p>The Facts on File dictionary of chemistry / edited by John Daintith</p> <p><i>Call number: QD5 Fac 1988</i></p>
 <p>No image available</p>	<p>A concise dictionary of chemistry / by Oxford University Press</p> <p><i>Call number: QD5 Con 1990</i></p>
 <p>No image available</p>	<p>McGraw-Hill dictionary of chemistry / Sybil P. Parker, editor in chief.</p> <p><i>Call number: QD5 Macg 1984</i></p>
	<p>Longman illustrated dictionary of chemistry : the fundamentals of chemistry explained and illustrated / by Arthur Godman</p> <p><i>Call number: QD5 God 1982</i></p>
	<p>Hawley's condensed chemical dictionary by Hawley, Gessner Goodrich</p> <p><i>Call number: QD5 Con 1993</i></p>
 <p>No image available</p>	<p>McGraw-Hill dictionary of chemical terms / Sybil P. Parker, editor in chief.</p> <p><i>Call number: QD5 Macg 1985</i></p>

2.2 Handbooks

2.2.1 Physics

Image	Titles
	<p>A-Z physics handbook / by David Sang and Mike Chapple</p> <p><i>Call number: QC61 San 2009</i></p>

2.2.2 Chemistry

Image	Titles
 No image available	Lange's handbook of chemistry / edited by John A. Dean ; formerly compiled and edited by Norbert Adolph Lange. <i>Call number: QD65 Lan 1987</i>
 No image available	Handbook of organic chemistry / by John A Dean <i>Call number: QD5 Macg 1985</i>
	Riegel's Handbook of industrial chemistry / edited by James A. Kent. <i>Call number: TP145 Ken 1983</i>
	A-Z chemistry handbook / by Andrew Hunt <i>Call number: QD65 Hun 2009</i>
	The chemist's ready reference handbook / by Gershon J. Shugar, John A. Dean. <i>Call number: QD65 Shu 1990</i>

3) Books


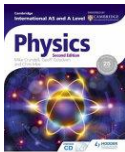
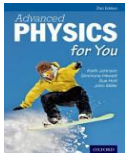

3.1 Library books

Besides searching using Online Catalogue (webPAC), user can also search the titles available under Reading List for XXX programme.


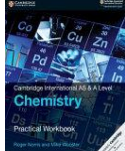

The link below will lead to the page where user can search using Course ID, Course Name, Programme Name, and Title.

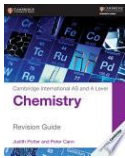

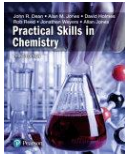


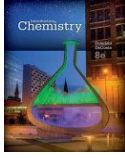
<http://webpac.kdu.edu.my/reserves/search?theme=kdu>

3.1.1 Physics

Image	Titles
 No image available	<p>Cambridge International AS and A Level Physics Coursebook / Sang, D., Jones, G., Chadha, G. & Woodside, R.</p> <p><i>Call number: QC32 Cam 2014</i></p>
	<p>International AS and A Level Physics / Crundell M, Goodwin G and Mee, C.</p> <p><i>Call number: QC32 Cru 2014</i></p>
	<p>Advanced Physics For You / Johnson, K., Hewett, S., Holt, S., Miller, J</p> <p><i>Call number: QC32 Adv 2015</i></p>
	<p>Cambridge International AS and A Level Chemistry: Revision Guide / Potter, J and Cann P.</p> <p><i>Call number: QC21.2 Bre 2015</i></p>

3.1.2 Chemistry

Image	Titles
 No image available	<p>Cambridge International AS and A Level Chemistry Coursebook / Ryan, L., & Norris, R.</p> <p><i>Call number: QD42 Nor 2014</i></p>
	<p>Cambridge international AS & A level chemistry. Practical workbook / Roger Norris and Mike Wooster.</p> <p><i>Call number: QD42 Nor 2018</i></p>
	<p>Cambridge International AS and A Level Chemistry / Cann, P & Hughes, P.</p> <p><i>Call number: QD42 Can 2015</i></p>

	<p>Physics in Context for Cambridge International AS and A Level / Breithaupt, J.</p> <p><i>Call number: QD42 Pot 2015</i></p>
	<p>Chemistry for changing times / John W. Hill</p> <p><i>Call number: QD33.2 Hil 2016</i></p>
	<p>Practical skills in chemistry // John R. Dean</p> <p><i>Call number: QD33.2 Dea 2017</i></p>
	<p>Chemistry / Raymond Chang</p> <p><i>Call number: QD31.3 Cha 2016</i></p>
	<p>Chemistry : an introduction to general, organic, and biological chemistry / Karen Timberlake</p> <p><i>Call number: QD31.3 Tim 2019</i></p>
	<p>Introductory chemistry / Steven S. Zumdahl</p> <p><i>Call number: QD31.3 Zum 2015</i></p>

3.2 Ebooks

Ebook can be search in webPAC or use the following books collection to search for your topics.

- [ProQuest Ebook Central](#)
- [EBSCOhost eBook Collection](#)
- [JSTOR](#)

3.3 Other open source ebooks resources

➤ **BCampus OpenED**

Search for quality open textbooks offered in a variety of digital formats; the first step in adopting open educational resources. Search by subject and download them to your computer.

<https://open.bccampus.ca/>

➤ **Directory of Open Access Books (DOAB)**

A growing collection of nearly 3000 online, open access scholarly books. The primary aim of DOAB is to increase discoverability of Open Access books. Academic publishers are invited to provide metadata of their Open Access books to DOAB. Metadata will be harvestable in order to maximize dissemination, visibility and impact. Aggregators can integrate the records in their commercial services and libraries can integrate the directory into their online catalogues, helping scholars and students to discover the books. The directory is open to all publishers who publish academic, peer reviewed books in Open Access and should contain as many books as possible, provided that these publications are in Open Access and meet academic standards.

<https://www.doabooks.org>

➤ **Ebooks and Textbooks from bookboon.com**

A very easy-to-use platform that can be accessed online and offline. All authors are vetted, and the books are peer-reviewed, by the California State University, so it can be assured that all learning content meets the highest quality standards.

<https://bookboon.com>

➤ **InTech Open**

IntechOpen, the world's leading publisher of Open Access books. Built by scientists, for scientists. The readership spans scientists, professors, researchers, librarians, and students, as well as business professionals. IntechOpen share knowledge and peer-reviewed research papers with libraries, scientific and engineering societies, and also work with corporate R&D departments and government entities.

<https://www.intechopen.com/books>

➤ **LibreTexts**

LibreTexts is a non-profit organization committed to freeing the textbook from the limitations and costs of traditional textbooks. It open and freely accessible LibreTexts provide a more engaging learning experience for students without the financial burden.

<https://libretexts.org/index.html>

➤ **Lyryx Advanced Learning**

Lyryx works within the OER community to provide instructors and students with quality online learning options that include open textbooks, editorial services to adapt the textbook for each course, corresponding online homework, a wide range of supplements, and an in-house support team available 7 days/week.

<https://lyryx.com/>

➤ **MIT OpenCourseWare Textbooks**

MIT OpenCourseWare (OCW) is a web-based publication of virtually all MIT course content. OCW is open and available to the world and is a permanent MIT activity. The materials served are from 2400 courses with 500 million visitors.

<https://ocw.mit.edu/courses/online-textbooks/>

➤ **OER Commons**

OER Commons is a public digital library of open educational resources. The materials type included case studies, assessments, lecture notes, primary sources, students' guides, etc.

<https://www.oercommons.org/oer>

➤ **Open Course Library**

Textbook resources, openly available in various disciplines that are either completely free or offered at very low prices.

<http://www.openwa.org/category/textbooks/>

➤ **Open Textbook Library**

Open textbooks are textbooks that have been funded, published, and licensed to be freely used, adapted, and distributed. These books have been reviewed by faculty from a variety of colleges and universities to assess their quality. These books can be downloaded for no cost or printed at low cost. All textbooks are either used at multiple higher education institutions; or affiliated with an institution, scholarly society, or professional organization. The library currently includes 708 textbooks, with more being added all the time.

<https://open.umn.edu/opentextbooks/>

➤ **OpenStax CNX**

Openstax CNX view and share free educational material that can be organized as books or other academic assignments. It publishes high-quality; peer-reviewed, openly licensed textbooks that are absolutely free online and low cost in print.

<https://cnx.org/>

➤ **OpenSUNY Textbooks**

Open SUNY Textbooks is an open textbook publishing initiative established by State University of New York libraries and supported by SUNY Innovative Instruction Technology Grants and SUNY Geneseo. This pilot initiative published high-quality, cost-effective course resources by engaging faculty as authors and peer-reviewers, and libraries as publishing service and infrastructure.

<https://textbooks.opensuny.org/>

➤ **Saylor Academy Open Textbooks**

The open textbooks on this page include several titles published through Saylor Academy's Open Textbook Challenge and a collection of titles re-published by Saylor Academy in 2012. These books are available to use, keep, revise, and share under open licenses. Do not have supplements (e.g. lecture slides and question banks) available for these textbooks, but the open online courses are useful teaching tools.

<https://www.saylor.org/>

➤ **Teaching Commons**

The Teaching Commons showcases high-quality open educational resources from leading colleges and universities and makes them available to educators and students around the world. Curated by librarians and their institutions and hosted by bepress, the Teaching Commons includes open-access textbooks, course materials, lesson plans, multimedia, lectures, k-12 materials, and more. Educators and researchers can use the Teaching Commons to discover teaching materials, adopt content for their courses, or create and share their own work.

<https://teachingcommons.us/>

4) **Subscribed Databases**

UOWM KDU Library subscribed databases can be found here:

<https://library.uowmkdu.edu.my/index.php/online-databases>

➤ **EBSCOhost (Academic Search Complete – ASC)**

Designed specifically for academic institutions, ASC is comprehensive, scholarly, and multi-disciplinary with more than 8,500 full-text periodicals, including nearly 7,300 peer-reviewed journals.

5) **Free online resources**

Free online resources can be accessed through UOWM KDU library website via this link:

<https://library.uowmkdu.edu.my/index.php/external-links>

5.1 Databases

Databases	Links
Science Direct - ScienceDirect is a website which provides subscription-based access to a large database of scientific and medical research. It hosts over 12 million pieces of content from 3,500 academic journals and 34,000 e-books.	https://www.sciencedirect.com/browse/journals-and-books?accessType=openAccess&accessType=containsOpenAccess
IOP Science - IOPscience is an online service for journal	https://iopscience.iop.org/

<p>content published by IOP Publishing. IOPscience embraces innovative technologies to make it easier for researchers to access scientific, technical and medical content.</p>	
<p>Scientific Research</p> <ul style="list-style-type: none"> - Scientific Research is an academic publisher of open access journals. It also publishes academic books and conference proceedings. SCIRP currently has more than 200 open access journals in the areas of science, technology and medicine. 	<p>https://www.scirp.org</p>

5.2 Journals

Journals	Links
<p>Journals of Physical Science</p> <ul style="list-style-type: none"> - This journal is a refereed journal published by Penerbit Universiti Sains Malaysia (USM Press). This journal is devoted to the publication of articles dealing with research works in Chemistry, Physics and Engineering. 	<p>http://jps.usm.my/</p>
<p>International Journal of Physics</p> <ul style="list-style-type: none"> - a peer-reviewed, open access journal that publishes original research articles and review articles in all areas of physics. The goal of this journal is to provide a platform for scientists and academicians all over the world to promote, share, and discuss various new issues and developments in different areas of physics. 	<p>http://www.sciepub.com/journal/IJP</p>
<p>European Journal of Physics Education</p> <ul style="list-style-type: none"> - European Journal of Physics Education (EJPE) 	<p>http://www.eu-journal.org/index.php/EJPE</p>

<p>is an international refereed journal that engages with theoretical and empirical issues in physics education and teaching and learning physics topics.</p>	
<p>Journal of Modern Physics</p> <ul style="list-style-type: none"> - Journal of Modern Physics is an international journal dedicated to the latest advancements in modern physics. The goal of this journal is to provide a platform for scientists and academicians all over the world to promote, share, and discuss various new issues and developments in different areas of modern physics. All manuscripts must be prepared in English and are subject to a rigorous and fair peer-review process. 	<p>https://www.scirp.org/journal/jmp/?utm_campaign=1416495552_69535709185&utm_source=liuyj&utm_medium=adwords&utm_term=%2Bphysics%20%2Bjournal&utm_content=aud-343326638305:kwd-327371630301_c_9066439_b&gclid=CjwKCAjwssD0BRBIEiwAJP5rHGI_Ro9rKwMvdCjgftgmDPZskCcsE9Ik3lafPsEb02IZMUBL7uxRoCUUkQAvD_BwE</p>
<p>Physics Education</p> <ul style="list-style-type: none"> - Physics Education (India) is a journal for physics pedagogy and research. 	<p>http://www.physedu.in/</p>
<p>Journal of Taibah University</p> <ul style="list-style-type: none"> - Journal of Taibah University for Science publishes high-quality, Open Access research within the natural sciences. The journal mainly publishes research in chemistry and mathematics—with an emphasis on physical chemistry and discrete mathematics—but also covers physics, geology, biology and environmental research, with a focus on molecular biology and biotechnology. 	<p>https://www.tandfonline.com/toc/tusc20/current</p>
<p>Oriental Journal of Chemistry</p> <ul style="list-style-type: none"> - An open access, 100% refereed, peer reviewed, bimonthly research journal of pure and applied chemistry. It publishes standard 	<p>https://www.orientjchem.org/</p>

<p>research articles in almost all thrust areas of current chemistry of academic and commercial importance. It provides a platform for publication of quality research articles, reviews and brief communications. Oriental Journal of Chemistry is abstracted and indexed in almost all reputed National and International agencies.</p>	
<p>Journal of Chemistry</p> <ul style="list-style-type: none"> - Journal of Chemistry publishes original research articles as well as review articles on all aspects of fundamental and applied chemistry, including biological, environmental, forensic, inorganic, organic, physical and theoretical. 	<p>https://www.hindawi.com/journals/jchem/</p>

5.3 Websites

News	Links
<p>Science Daily</p> <p>This is a source for the latest research news. It covers various of science and technologies topics with recent articles.</p>	<p>https://www.sciencedaily.com/</p>
<p>ScienceNews</p> <ul style="list-style-type: none"> - News features daily news articles, feature stories, reviews and more in all disciplines of science, as well as Science News magazine. 	<p>https://www.sciencenews.org/</p>
<p>Physics.org – A Physics Info. Portal from the Institute of Physics (IOP)</p>	<p>https://www.iop.org/explore-physics</p>
<p>Nature.com</p> <ul style="list-style-type: none"> - Physical sciences are those academic disciplines that aim to uncover the 	<p>https://www.nature.com/subjects/physical-sciences</p>

<p>underlying laws of nature - often written in the language of mathematics. It is a collective term for areas of study including astronomy, chemistry, materials science and physics</p>	
<p>The Physics Source</p> <ul style="list-style-type: none"> - The Physics Source is a collection of resources for introductory college level physics courses. It includes curriculum, curriculum support material, reference material, and pedagogical and physics education research inspired content. 	<p>https://www.compadre.org/introphys/</p>
<p>Physical Sciences Resource Center (Amer. Assoc. of Physics Teachers)</p> <ul style="list-style-type: none"> - The Physical Sciences Resource Center is a web-based databank that provides K-20 teachers links to a wide range of teaching and learning resources in the physical sciences. All materials are classified by their grade level, topic, and activity type, and have descriptions outlining their content. Information about authors, publishers, costs, and copyright is also provided. 	<p>https://psrc.aapt.org/</p>
<p>Science News from EurekAlert! (AAAS)</p> <ul style="list-style-type: none"> - MERLOTx is a free, open online collection of quality learning resources across a wide range of academic and workforce disciplines. MERLOTx is designed to support learners exploring and learning the prerequisite concepts and skills for online courses, face-to-face courses, as well as other formal and informal open education programs and courses. MERLOT has been led by the 	<p>http://www.merlotx.org/find/scienceandtechnology.html</p>

<p>California State University, with over 110,000 registered members (IT'S FREE TO JOIN), millions of users (IT'S FREE TO USE) and almost 40,000 FREE online learning resources.</p>	
<p>Science.gov</p> <ul style="list-style-type: none"> - Science.gov searches over 60 databases and over 2,200 scientific websites to provide users with access to more than 200 million pages of authoritative federal science information including research and development results. 	<p>https://www.science.gov/</p>
<p>MIT Chemistry Course Materials</p> <ul style="list-style-type: none"> - MIT OpenCourseWare makes the materials used in the teaching of almost all of MIT's subjects available on the Web, free of charge. With more than 2,400 courses available, OCW is delivering on the promise of open sharing of knowledge. 	<p>https://ocw.mit.edu/courses/chemistry/index.htm</p>
<p>APS Website: Physics – Spotlighting Exceptional Research</p> <ul style="list-style-type: none"> - Physics is a free, online magazine from the American Physical Society. The publication primarily reports on papers from the Physical Review journals, focusing on results that will change the course of research, inspire a new way of thinking, or spark curiosity. 	<p>https://physics.aps.org/</p>
<p>Physics.org – A Physics Info. Portal from the Institute of Physics (IOP)</p> <ul style="list-style-type: none"> - The American Institute of Physics, a 501(c)(3) not-for-profit corporation, advances, promotes and serves the physical sciences 	<p>https://www.aip.org/member-societies</p>

<p>for the benefit of humanity. They are committed to the preservation of physics for future generations, the success of physics students both in the classroom and professionally, and the promotion of a more scientifically literate society</p>	
<p>AS & A2 LEVEL (A-Level) Revision Revision World</p> <ul style="list-style-type: none"> - RevisionWorld.com was launched in 2007 with the aim of providing a fun and free revision resource for GCSE and A-Levels. 	<p>https://revisionworld.com/a2-level-level-revision</p>
<p>SENEKA</p> <ul style="list-style-type: none"> - Website for online revision for A-Level students. 	<p>https://mathsmadeeasy.co.uk/a-level-chemistry-revision/</p>
<p>A*Chemistry</p> <ul style="list-style-type: none"> - The world's largest free online resource centre for GCSE, IGCSE, O-Level, AS Level, A Level, IB, AP, SAT and University Chemistry. 	<p>http://astarchemistry.com/</p>

5.5 Conference Proceedings

Conference Proceedings	Links
<p>IOP Conference Series</p> <ul style="list-style-type: none"> - The open-access IOP Conference Series provides a fast, versatile and cost-effective proceedings publication service for your conference. Proceedings are an important part of the scientific record, documenting and preserving work presented at conferences worldwide. Key publishing subject areas include: physics, materials science, environmental science, bioscience, engineering, computational science and 	<p>http://conferenceseries.iop.org/</p>

mathematics.	
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