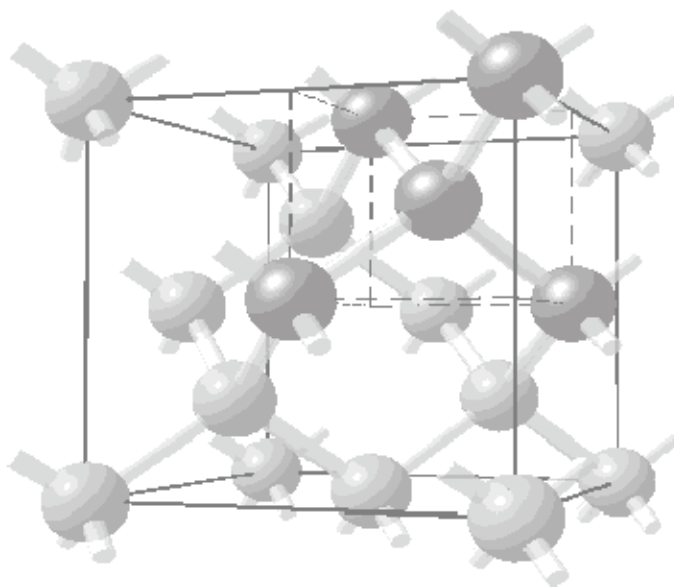


物理學相關電子資源介紹

Physics Electronic Resources



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一、前言

物理學是自然科學的基礎，對自然科學與應用科學的發展都伴演著重要的角色，近幾百年來，人類文明的發展與物理學的成長可說是密切相關。

物理（Physics）一詞是源自於希臘文的「自然」，早期物理被稱為「自然哲學」，因此有關自然現象的道理都屬於物理所探討的範圍。然而自然現象包羅萬象，因此一些內容相近的自然科學則從物理中獨立成另一學門。物理學探討的對象非常廣泛，包含了力學、光學、熱學、電磁學；而物理學亦與其他基礎科學及應用科學有著密切的相關，例如數學、化學、生物學、地球科學、醫學、環境科學、太空科學、電機與電子工程等。

本校物理系不論在教學及研究方面都可說是國內的榜首，且「國科會物理研究推動中心」更設於本校物理系，並成立了「物理推動中心圖書館」，為全國物理學界所利用。

以下依「資料庫」、「全文電子期刊」及「電子書」三種型態介紹相關電子資源。

二、資料庫

以下資料庫請至本館網頁（<http://www.lib.nthu.edu.tw>）點選「電子資料庫」查詢。

表一：物理相關資料庫

資料庫名稱	類型
Academic Search Premier (ASP)	全文
INSPEC-Ei	索摘
ProQuest Digital Dissertation Full Text	全文
ProQuest Digital Dissertations & Theses	索摘
Science Resource Center	全文
SDOL	全文
SpringerLink	全文
Web of Science – Science Citation Index Expanded	索摘
中國期刊全文數據庫 – 理工A專輯	全文

三、電子期刊

以下電子期刊請至本館網頁 (<http://www.lib.nthu.edu.tw>) 點選「電子期刊」依刊名、ISSN、關鍵字等方式查詢。

表二：物理相關電子期刊

刊名	ISSN
Acoustical Physics	1063-7710
American Journal of Physics	0002-9505
Applied Physics Letters	0003-6951
Astronomy Letters	1063-7737
Astronomy Reports	1063-7729
Chaos	1054-1500
Journal of Applied Physics	0021-8979
Physics Today	0031-9228
Journal of Chemical Physics	0021-9606
Journal of Mathematical Physics	0022-2488
Journal of Physical and Chemical Reference Data	0047-2689
Low Temperature Physics	1063-777X
Physics of Fluids	1070-6631
Physics of Plasmas	1070-664X
Review of Scientific Instruments	0034-6748
APL: Organic Electronics and Photonics	1941-420X
Applied Physics Reviews	1931-9401
JCP: BioChemical Physics	1931-9223
Physical Review Letters	0031-9007
Reviews of Modern Physics	0034-6861
Physical Review A	1050-2947
Physical Review B	0163-1829
Physical Review C	0556-2813
Physical Review D	0556-2821
Physical Review E	1063-651X
Physical Review Online Archive (Prola)	
Physical Review Special Topics - Accelerators and Beams	1098-4402

刊名	ISSN
Virtual Journals in Science and Technology	1554-9178
British Journal of Applied Physics	0508-3443
Classical and Quantum Gravity	0264-9381
Clinical Physics and Physiological Measurement (1980-1992)	0143-0815
Distributed Systems Engineering	0967-1846
Environmental Research Letters	1748-9326
European Journal of Physics	0143-0807
Inverse Problems	0266-5611
Journal of Micromechanics and Microengineering	0960-1317
Journal of Nuclear Energy. Part C, Plasma Physics, Accelerators, Thermonuclear Research	0368-3281
Journal of Optics	0150-536X
Journal of Optics A: Pure and Applied Optics	1464-4258
Journal of Optics B: Quantum and Semiclassical Optics	1464-4266
Journal of Physics A: General Physics (1968-1972)	0022-3689
Journal of Physics A: Mathematical and General (1975-2006)	0305-4470
Journal of Physics A: Mathematical, Nuclear and General (1973-1974)	0301-0015
Journal of Physics A: Mathematical and Theoretical (2006-)	1751-8113
Journal of Physics B: Atomic and Molecular Physics (1970-1987)	0022-3700
Journal of Physics B: Atomic, Molecular and Optical Physics	0953-4075
Journal of Physics B: Proceedings of the Physical Society: Atomic and Molecular Physics	0368-3508
Journal of Physics C: Proceedings of the Physical Society: Solid State Physics (1968-1969)	0022-3719
Journal of Physics C: Solid State Physics (1970-1988)	0022-3719
Journal of Physics D: Applied Physics	0022-3727
Journal of Physics E: Scientific Instruments (1968-1989)	0022-3735

刊名	ISSN
Journal of Physics F: Metal Physics (1971-1988)	0305-4608
Journal of Physics G: Nuclear and Particle Physics	0954-3899
Journal of Physics G: Nuclear Physics (1975-1988)	0305-4616
Journal of Physics: Condensed Matter	0953-8984
Journal of Physics: Conference Series	1742-6588
Journal of Radiological Protection	0952-4746
Journal of Scientific Instruments (1923-1967)	0950-7671
Journal of the Society for Radiological Protection (1981-1987)	0260-2814
Measurement Science and Technology	0957-0233
Metrologia	0026-1394
Modelling and Simulation in Materials Sciences and Engineering	0965-0393
Nanotechnology	0957-4484
New Journal of Physics	1367-2630
Nonlinearity	0951-7715
Nouvelle Revue d'Optique (1973-1976)	0335-7368
Nouvelle Revue d'Optique Appliquée (1970-1972)	0029-4780
Nuclear Fusion	0029-5515
Physics Education	0031-9120
Physics in Medicine and Biology	0031-9155
Physics in Technology	0305-4624
Physics Scripta	0031-8949
Physiological Measurement	0967-3334
Plasma Physics (1967-1983)	0032-1028
Plasma Physics and Controlled Fusion	0741-3335
Plasma Sources Science and Technology	0963-0252
Proceedings of the Physical Society	0370-1328
Proceedings of the Physical Society (1926-1948)	0959-5309

刊名	ISSN
Proceedings of the Physical Society of London (1874-1925)	1478-7814
Proceedings of the Physical Society. Section A (1949-1957)	0370-1298
Proceedings of the Physical Society. Section B (1949-1957)	0370-1301
Pure and Applied Optics: Journal of the European Optical Society Part A (1992-1998)	0963-9659
Quantum and Semiclassical Optics: Journal of the European Optical Society Part B	1355-5111
Quantum Optics: Journal of the European Optical Society Part B (1989-1994)	0954-8998
Reports on Progress in Physics	0034-4885
Review of Physics in Technology (1970-1972)	0034-6683
Semiconductor Science and Technology	0268-1242
Smart Materials and Structures	0964-1726
Superconductor Science and Technology	0953-2048
Transactions of the Optical Society	1475-4878
Applied optics	1539-4522
Journal of the Optical Society of America A: Optics, Image Science & Vision	1084-7529
Journal of the Optical Society of America B: Optical Physics	0740-3224
Optics letters	0146-9592
Optics express	1094-4087
Journal of optical networking	1536-5379
Journal of the Optical Society of America a: Optics, Image Science & Vision (josa A)	1084-7529
Journal of the Optical Society of America B (josa B)	0740-3224
Virtual Journal for Biomedical Optics	1931-1532
Journal of Lightwave Technology	0733-8724
Journal of Optical Technology	1070-9762

四、電子書

以下電子書請至本館網頁 (<http://www.lib.nthu.edu.tw>) 點選「館藏查詢」，凡屬電子書者，在資料類型一欄為「電子書」，點選館藏記錄詳細檢視頁面中之「電子書」項目可看全文。

表三：物理相關電子書

書名
Acoustics: An Introduction
Advanced Transport Phenomena
Atmosphere, Weather and Climate
BioChip Technology
Chemical and Functional Properties of Food Saccharides
Empirical Methods in Short-Term Climate Prediction
Heat Transfer
Mass Transfer: Principles and Applications
Optical Remote Sensing: Science and Technology
Photonic Glasses
Plasma Physics and Engineering
Structural Nanocrystalline Materials: Fundamentals and Applications
Use of High Performance Computing in Meteorology
Strengthening Mechanisms in Crystal Plasticity
Civilized Life in the Universe
Introduction to Scanning Tunneling Microscopy
The Science and Technology of Undulators and Wigglers
X-Ray Compton Scattering
Atomic and Laser Spectroscopy
Crystallography of the Polymethylene Chain
The Structure and Properties of Water
Physics of Strongly Coupled Plasma
The Equilibrium Theory of Inhomogeneous Polymers

書名
Path Integrals and Quantum Anomalies
Plasma Spectroscopy
Intense Terahertz Excitation of Semiconductors
Molecular Nanomagnets
Quantum Physics in One Dimension
Stealing the Gold
The Martians of Science
Crystalline Molecular Complexes and Compounds
The Structure of Physical Chemistry
Aperiodic Crystals
The Problems of Physics
Concepts in Spin Electronics
Electrons and Disorder in Solids
Chern-Simons Theory, Matrix Models, and Topological Strings
Quantum Transport in Mesoscopic Systems
Knowing
Coherent X-Ray Optics
Quantum Theory of Solids
Multipole Theory in Electromagnetism
Molecular Beams
Semiconductor Detector Systems
Theory of Defects in Solids
Modern Supersymmetry
Theory of Fluctuations in Superconductors
Electrons and Phonons

上述各類電子資源之詳細使用說明請見圖書館網頁/電子資料庫，若讀者於使用上有任何問題，歡迎洽詢讀者服務組參考諮詢櫃台，校內分機42995，或E-mail至ref@my.nthu.edu.tw。