Core List of Astronomy and Physics Journals

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CRITERIA FOR SELECTION

This is a list of highly-used and highly-cited physics and astronomy journals. "Use" is measured largely on paper-journal counts from selective academic research-level libraries. Citation count titles are drawn from Institute for Scientific Information (ISI) data. Recognition is given to entrepreneurial electronic-only or new-style electronic journals. Selective news, magazine, and general science journals are omitted.
The compilers welcome questions, suggestions for additions, or other advice. Comments may be sent c/o Diane Fortner, Physics Library, University of California, Berkeley.
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Fax 510-642-8350

CORE LIST OF ASTRONOMY AND PHYSICS JOURNALS

Acoustics research letters online. 1 (2000)- ISSN 1529-7853 Acoustical Society of America
Electronic

Advances in atomic, molecular, and optical physics. 1 (1965)- ISSN 0065-2199 Elsevier / Academic
Continues Advances in Atomic and Molecular Physics
Print

Advances in nuclear physics. 1 (1968)- ISSN 0065-2970 Kluwer / Plenum
Print

Advances in physics. 1 (1952)- ISSN 0001-8732 Taylor & Francis
Print and electronic

Advances in space research. 1 (1981)- ISSN 0273-1177 Elsevier
Print and electronic

Advances in theoretical and mathematical physics / ATMP. 1 (1997)- ISSN 1095-0761 International Press
Print and electronic

American journal of physics. 8 (1940)- ISSN 0002-9505 American Association of Physics Teachers
Print and electronic
Astronomical journal (and supplement). 1 (1849)- ISSN 0004-6256 American Astronomical Society
Print and electronic, archive fully available electronically through Astrophysics Data System

Astronomische nachrichten. 1 (1821)- ISSN 0004-6337 Wiley VCH
Print and electronic, archive available electronically back to 1947 through Astrophysics Data System

Print (some articles electronic)

Astronomy and astrophysics. 1 (1969)- ISSN 0004-6361 EDP Sciences
Merger of Astronomy and Astrophysics Supplement Series and Astronomy and Astrophysics
Print and electronic, archive fully available electronically through Astrophysics Data System

Astronomy and astrophysics review. 1 (1989)- ISSN 0935-4956 Springer
Print and electronic

Print and electronic

Print and electronic, archive fully available electronically through Astrophysics Data System

Continues Soviet Astronomy 1-36 (1958-1992)
Print and electronic

Astroparticle physics. 1 (1992)- ISSN 0927-6505 Elsevier
Print and electronic

Astrophysical journal (and suppl. and letters). 1 (1895)- ISSN 0004-637X American Astronomical Society
Print and electronic, archive fully available electronically through Astrophysics Data System

Astrophysics and space science. 1 (1968)- ISSN 0004-640X Kluwer
Print and electronic, archive fully available electronically through Astrophysics Data System
Atomic data and nuclear data tables. 12 (1973)- ISSN 0092-640X Elsevier / Academic Merger of Atomic Data and Nuclear Data Tables
Print and electronic

Biophysical journal. 1 (1960)- ISSN 0006-3495 Biophysical Society
Print and electronic

Bulletin of the atomic scientists. 1 (1945)- ISSN 0096-3042 Educational Foundation for Nuclear Science
Print and selectively electronic

Canadian journal of physics. 13 (1935)- ISSN 0008-4204 National Research Council of Canada
Continues Canadian Journal of Research. 1-12 (1929-1935)
Print and electronic

Celestial mechanics and dynamical astronomy. 1 (1969)- ISSN 0923-2958 Kluwer
Print and electronic

Chaos. 1 (1991)- ISSN 1054-1500 American Institute of Physics
Print and electronic, archive fully available electronically

Chemical physics letters. 1 (1967)- ISSN 0009-2614 Elsevier
Print and electronic

Classical and quantum gravity. 1 (1984)- ISSN 0264-9381 Institute of Physics
Print and electronic, archive fully available electronically

Communications in mathematical physics. 1 (1965)- ISSN 0010-3616 Springer
Print and electronic

Computer physics communications. 1 (1969)- ISSN 0010-4655 Elsevier
Print and electronic

Computing in science and engineering. 1 (1999)- ISSN 1521-9615 IEEE
Print and electronic, archive fully available electronically

Contemporary physics. 1 (1959)- ISSN 0010-7514 Taylor & Francis
Print and electronic

Critical reviews in solid state and materials sciences. 1 (1970)- ISSN 1040-8436 CRC
Continues CRC Critical Reviews in Solid State Sciences and similar variant title
Print and electronic

Current science. 1 (1932)- ISSN 0011-3891 Indian Academy of Sciences
Print and electronic
Variant titles
Print and electronic

European journal of physics. 1 (1980)- ISSN 0143-0807 Institute of Physics on behalf of the European Physical Society
Print and electronic, archive fully available electronically

European physical journal A. Hadrons and nuclei. 1 (1998)- ISSN 1434-6001 Societa Italiana di Fisica, Springer
Merger of Il Nuovo Cimento A and Zeitschrift fur Physik A
European physical journal: applied physics. 1 (1998)- ISSN 1286-0042 EDP Sciences
Merger of Journal de physique III and Microscopy, microanalysis, microstructures
European physical journal B. Condensed matter physics. 1 (1998)- ISSN 1434-6028 EDP Sciences, Societa Italiana di Fisica, Springer
Merger of Il Nuovo Cimento D, Journal de Physique, Zeitschrift fur Physik B
European physical journal C. Particles and fields. 1 (1998)- ISSN 1434-6044 Societa Italiana di Fisica, Springer
Merger of Il Nuovo Cimento A and Zeitschrift fur Physik C
European physical journal D. Atomic, molecular and optical physics. 1 (1998)- ISSN 1434-6060 EDP Sciences, Societa Italiana di Fisica, Springer
Merger of Il Nuovo Cimento D, Journal de Physique, Zeitschrift fur Physik D
European physical journal E. Soft matter. 1 (2000)- ISSN 1292-8941 EDP Sciences, Societa Italiana di Fisica, Springer
Merger of Il Nuovo Cimento D, Journal de Physique, Zeitschrift fur Physik D
Print and electronic

Europhysics letters. 1 (1986)- ISSN 0295-5075 European Physical Society
Merger of Journal de Physique Lettres and Lettere al Nuovo Cimento
Print and electronic

Print and electronic

General relativity and gravitation. 1 (1970)- ISSN 0001-7701 Kluwer / Plenum
Print and electronic

Icarus. 1 (1962)- ISSN 0019-1035 Elsevier / Academic
Print and electronic

IEEE journal of quantum electronics. 1 (1965)- ISSN 0018-9197 IEEE
Print and electronic

Indian journal of pure and applied physics. 1 (1963)- ISSN 0019-5596 National Institute of Science Communication, New Delhi
Print

Industrial physicist. 1 (1995)- ISSN 1082-1848 American Institute of Physics
Print and electronic
Print and electronic

International journal of theoretical physics. 1 (1968)- ISSN 0020-7748 Kluwer / Plenum
Print and electronic

International journal of thermophysics. 1 (1980)- ISSN 0195-028X Kluwer / Plenum
Print and electronic

Print and electronic

Print

Journal of applied physics. 8 (1937)- ISSN 0021-8979 American Institute of Physics
Print and electronic

Journal of chemical physics. 1 (1933)- ISSN 0021-9606 American Institute of Physics
Print and electronic

Journal of computational physics. 1 (1966)- ISSN 0021-9991 Elsevier / Academic
Print and electronic

Journal of cosmology and astroparticle physics. (2003)- ISSN 1475-7516 SISSA (International School for Advanced Studies, Trieste, Italy) and Institute of Physics
Electronic

JETP letters 1 (1965)- ISSN 0021-3640
Print and electronic

Journal of high energy physics / JHEP. 1997- ISSN 1029-8479 SISSA (International School for Advanced Studies, Trieste, Italy), INFN, CERN, and Institute of Physics
Electronic, early archival print volumes

Print and electronic
Some vols., Proceedings of the International Conference on Luminescence
Print and electronic

Journal of mathematical physics. 1 (1960)- ISSN 0022-2488 American Institute of Physics
Print and electronic

Journal of modern optics. 34 (1987)- ISSN 0950-0340 Taylor & Francis
Continues Optica Acta
Print and electronic

Journal of optics B. Quantum and semiclassical optics. 1 (1999)- ISSN 1464-4266
European Optical Society and Institute of Physics
Continues Journal of the European Optical Society, Part B: Quantum optics / Quantum and semiclassical optics 1-20 (1989-1998); variant titles
Print and electronic, archive fully available electronically

Journal of physical and chemical reference data. 1 (1972)- ISSN 0047-2689 American Institute of Physics
Print and electronic

Journal of physics A. Mathematical and general. 1 (1968)- ISSN 0305-4470 Institute of Physics
Journal of physics B. Atomic, molecular and optical physics. 1 (1968)- ISSN 0953-4075 Institute of Physics
Journal of physics: Condensed matter. 1 (1989)- ISSN 0953-8984 Institute of Physics
Journal of physics G: Nuclear and particle physics. 1 (1975)- ISSN 0954-3899 Institute of Physics
Continues Proceedings of the Physical Society 1-92 (1874-1967)
Print and electronic, archive fully available electronically

Journal of physics and chemistry of solids. 1 (1956)- ISSN 0022-3697 Elsevier
Continues Physics and Chemistry of Solids 1-23 (1956-1962)
Print and electronic

Print and electronic

Print and electronic

Print and electronic
Journal of the Acoustical Society of America. 1 (1929)- ISSN 0001-4966 Acoustical Society of America
*Print and electronic*

Journal of the British Astronomical Association. 1 (1890)- ISSN 0007-0297 British Astronomical Association
*Print and electronic, current and archive available electronically back to 1981 through Astrophysics Data System*

Journal of the Optical Society of America A: Optics, image science, and vision. 1 (1984)- ISSN 0740-3232 Optical Society of America
Journal of the Optical Society of America B: Optical physics. 1 (1984)- ISSN 0740-3224 Optical Society of America
Continues Journal of the Optical Society of America. 1-73 (1917-1983) ISSN 0030-3941
*Print and electronic*

Journal of the Physical Society of Japan. 1 (1946)- ISSN 0031-9015 Physical Society of Japan
*Print and electronic*

*Print and electronic; archive fully available electronically through Astrophysics Data System*

Letters in mathematical physics. 1 (1975)- ISSN 0377-9017 Kluwer
*Print and electronic*

Low temperature physics. 1 (1975)- ISSN 1063-777X American Institute of Physics. English translation of Fizika Nizkikh Temperatur
*Print and electronic*

Materials research bulletin. 1 (1966)- ISSN 0025-5408 Elsevier / Pergamon
*Print and electronic*

Mathematical physics electronic journal. 1 (1995)- ISSN 1086-6685 Dept. de Matematica Aplicada I Analisi, Universitat de Barcelona
*Electronic*

Mathematical proceedings of the Cambridge Philosophical Society. 1 (1843)- ISSN 0305-0041 Cambridge University Press
Continues Proceedings and Proceedings – Mathematical and Physical Sciences
*Print and electronic*

Mercury. 1 (1972)- ISSN 0047-6773 Astronomical Society of the Pacific
*Print and electronic*
Modern physics letters A: particles and fields, gravitation, cosmology, nuclear physics. 1 (1986)- ISSN 0217-7323 World Scientific Publishing

Modern physics letters B: condensed matter physics, statistical physics, applied physics. 1 (1987)- ISSN 0217-9849 World Scientific Publishing

Molecular physics. 1 (1958)- ISSN 0026-8976 Taylor & Francis


Some early issues published-with or considered supplementary to Memoirs

Print and electronic, archive fully available electronically through Astrophysics Data System

Nature. 1 (1869)- ISSN 0028-0836 Nature Publishing Group

Naturwissenschaften. 1 (1913)- ISSN 0028-1042 Springer


New journal of physics. 1 (1998/1999)- ISSN 1367-2630 Institute of Physics and Deutsche Physikalische Gesellschaft

New scientist. 1 (1956)- ISSN 0262-4079 Reed Business Information, London

Nonlinearity. 1 (1988)- ISSN 0951-7715 Institute of Physics

Nuclear fusion. 1 (1960)- ISSN 0029-5515 International Atomic Energy Agency

Nuclear instruments and methods in physics research A: Accelerators, spectrometers, detectors, and associated equipment. 219 (1984)- ISSN 0168-9002 Elsevier

Nuclear instruments and methods in physics research B: Beam interactions with materials and atoms. 1 (1984)- ISSN 0168-583X Elsevier

Continues Nuclear instruments and methods in physics research. 1-218 (1957-1983)
Nuclear physics A. Nuclear and hadronic physics. 90 (1967)- ISSN 0375-9774 Elsevier
Nuclear physics B. Particle physics. 1 (1967)- ISSN 0550-3213 Elsevier
Continues Nuclear Physics 1-89 (1956-1966)
Print and electronic

Nuovo cimento B. General physics, relativity, astronomy and mathematical physics and methods. Ser 10, 40 (1965)- ISSN 0369-3554 Societa Italiana di Fisica
Continues Nuovo Cimento s1-s10 (1855-1965)
Print and electronic

The Observatory. 1 (1877)- ISSN 0029-7704 Editors of The Observatory, UK
Print; archive fully available electronically through Astrophysics Data System

Optics and spectroscopy. 6 (1959)- ISSN 0030-400X MAIK “Nauka/Interperiodica” and American Institute of Physics. English translation of Optikai i Spektroskopiya
Print and electronic

Optics communications. 1 (1969)- ISSN 0030-4018 Elsevier
Print and electronic

Optics express. ISSN 1094-4087 Optical Society of America
Electronic

Optics letters. 1 (1977)- ISSN 0146-9592 Optical Society of America
Print and electronic

Philosophical magazine. 83 (2003)- ISSN 1478-6435 Taylor & Francis
Philosophical magazine letters. 55 (1987)- ISSN 0950-0839 Taylor & Francis
Philosophical magazine 1798-1977; variant titles and subtitles
Print and electronic

Philosophical transactions [of the Royal Society of London]. Mathematical, physical and engineering sciences. 187 (1896)- ISSN 1364-503X The Royal Society
Continues Philosophical Transactions 1665-1886 and other variant titles
Print and electronic, archive fully available electronically

Physica A: Statistical mechanics and its applications. 79 (1979)- ISSN 0378-4371 Elsevier
Physica B: Condensed matter. 79 (1975)- ISSN 0921-4526 Elsevier
Physica C: Superconductivity and its applications. 152 (1988)- ISSN 0921-4534 Elsevier
Physica D: Nonlinear phenomena. 1 (1980)- ISSN 0167-2789 Elsevier
Physica E: Low-dimensional systems & nanostructures. 1 (1997)- ISSN 1386-9477 Elsevier
Continues Physica 1-78 (1933-1974) ISSN 0031-8914
Print and electronic
Physica scripta. 1 (1970)- ISSN 0031-8949 Royal Swedish Academy of Sciences and the Swedish Physical Society and other Nordic academies and societies
Print and electronic

Physica status solidi B. Basic research. 43 (1971)- ISSN 0370-1972 Wiley-VCH
Print and electronic

Physical review A. Atomic, molecular, and optical physics. 1 (1970)- ISSN 1050-2947 American Physical Society
Physical review B. Condensed matters and materials physics. 1 (1970)- ISSN 0163-1829 American Physical Society
Physical review C. Nuclear physics. 1 (1970)- ISSN 0556-2813 American Physical Society
Physical review D. Particles, fields, gravitation, and cosmology. 1 (1970)- ISSN 0556-2821 American Physical Society
Physical review E. Statistical, nonlinear, and soft matter physics. 47 (1993)- ISSN 1063-651X American Physical Society
Continues Physical Review 1-188 (1893-1969 ser 1-ser 2) ISSN 0031-899X
Print and electronic, archive fully available electronically

Physical review focus. 1 (1998)- American Physical Society
Selections from Physical Review and Physical Review Letters explained for readers in all fields of physics
Electronic

Physical review letters. 1 (1958)- ISSN 0031-9007 American Physical Society
Print and electronic, archive fully available electronically

Physical review special topics: accelerators and beams. 1 (1998)- ISSN 1098-318X American Physical Society
Electronic

Physics education. 1 (1966)- ISSN 0031-9120 Institute of Physics
Print and electronic

Physics essays. 1 (1988)- ISSN 0836-1398 Physics Essays Publications
Print

Physics letters. A. & B. 1 (1962)- ISSN 0375-9601 Elsevier
Print and electronic

Physics of atomic nuclei. 1 (1965)- ISSN 1063-7788 MAIK “Nauka/Interperiodica” and American Institute of Physics. English translation of Iadernaia Fizika
Print and electronic
Physics of fluids. 1 (1958)- ISSN 1070-6631 American Institute of Physics
Title variant Physics of Fluids A
*Print and electronic*

Physics of plasmas. 1 (1994)- ISSN 1070-664X American Institute of Physics
Continues Physics of Fluids B
*Print and electronic, archive fully available electronically*

Physics of the solid state. 1 (1959)- ISSN 1063-7834 MAIK “Nauka/Interperiodica” and American Institute of Physics. English translation of Fizika Tverdogo Tela
*Print and electronic*

Physics reports. 1 (1971)- ISSN 0370-1573 Elsevier
*Print and electronic*

Physics teacher. 1 (1963)- ISSN 0031-921X American Association of Physics Teachers
*Print and electronic*

Physics today. 1 (1948)- ISSN 0031-9228 American Institute of Physics
*Print and electronic*

Continues Soviet Physics-Uspekhi
*Print and electronic*

Physics world. 1 (1988)- ISSN 0953-8585 Institute of Physics
*Print and select full-text and abstracts accessible as part of PhysicsWeb*

Planetary and space science. 1 (1959)- ISSN 0032-0633 Elsevier
*Print and electronic*

Planetary report. 1 (1980)- ISSN 0736-3680 Planetary Society
*Print and electronic*

Plasma physics and controlled fusion. 1 (1959)- ISSN 0741-3335 Institute of Physics
*Print and electronic, archive fully available electronically*

Plasma physics reports. 1 (1975)- ISSN 1063-780X MAIK “Nauk/Interperiodica” and American Institute of Physics. English translation of Fizika Plazmy
Variant titles
*Print and electronic*

Proceedings [of the Royal Society of London]. Mathematical, physical, and engineering sciences. 76 (1905)- ISSN 1364-5021 The Royal Society
Continues Proceedings 1854-1905 and other variant titles
*Print and electronic, archive fully available electronically*
Progress in quantum electronics. 1 (1970)- ISSN 0079-6727 Elsevier
Print and electronic

Progress in surface science. 1 (1972)- ISSN 0079-6816 Elsevier
Print and electronic

Progress of theoretical physics. 1 (1946)- ISSN 0033-068X Kyoto University, for
Yukawa Institute for Theoretical Physics and Physical Society of Japan
Print and electronic

Publishing
Print 1966-2000 only; electronic 1997-
Electronic, archive available electronically 1966-1980 through Astrophysics Data System

Publications of the Astronomical Society of Japan. 1 (1949)- ISSN 0004-6264
Astronomical Society of Japan (Nihon Tenmon Gakkai)
Print and electronic, archive fully available electronically through Astrophysics Data System

Publications of the Astronomical Society of the Pacific. 1 (1889)- ISSN 0004-6280
Astronomical Society of the Pacific
Print and electronic, archive fully available electronically through Astrophysics Data System

Reports on progress in physics. 1 (1934)- ISSN 0034-4885 Institute of Physics
Print and electronic, archive fully available electronically

Review of scientific instruments. 1 (1930)- ISSN 0034-6748 American Institute of
Physics
Print and electronic

Reviews in mathematical physics. 1 (1989)- ISSN 0129-055X World Scientific
Print and electronic

Reviews of modern physics. 1 (1929)- ISSN 0034-6861 American Physical Society
Print and electronic, archive fully available electronically

Revista Mexicana de astronomia y astrofisica. 1 (1974)- ISSN 0185-1101 Instituto de
Astronomia, Universidad Nacional Autonoma de Mexico
Print and electronic, archive fully available electronically through Astrophysics Data System

Rivista del nuovo cimento. 1 (1969)- ISSN 0393-697X Societa Italiana di Fisica
Continues same title 1-4 (1943-1948) and variant titles as Supplemento al Nuovo
Cimento
Print
Science. 1 (1880)- ISSN 0036-8075 American Association for the Advancement of Science
History: 1-3 (1880-1882), 1-23 (1883-1894), new ser 1 (1895)-
Print and electronic, archive fully available electronically

Scientific American. 1 (1845)- ISSN 0036-8733 Scientific American, Inc.
Print and electronic

Semiconductor science and technology. 1 (1986)- ISSN 0268-1242 Institute of Physics
Print and electronic, archive fully available electronically

Print and electronic

Sky and telescope. 1 (1941)- ISSN 0037-6694 Sky Publishing Corp.
Print and electronic

Solar physics. 1 (1967)- ISSN 0038-0938 Kluwer
Print and electronic, archive fully available electronically through Astrophysics Data System

Solid state communications. 1 (1963)- ISSN 0038-1098 Elsevier / Pergamon
Print and electronic

Southern stars. 1 (1934)- ISSN 0049-1640 Royal Astronomical Society of New Zealand
Print

Space science reviews. 1 (1962)- ISSN 0038-6308 Kluwer
Print and electronic

Superconductor science and technology. 1 (1988)- ISSN 0953-2048 Institute of Physics
Print and electronic, archive fully available electronically

Superlattices and microstructures. 1 (1985)- ISSN 0749-6036 Elsevier / Academic
Print and electronic

Surface science (and letters). 1 (1964)- ISSN 0039-6028 Elsevier
Print and electronic

Technical physics (and letters). 1 (1956)- ISSN 1063-7842 MAIK “Nauka/Interperiodica” and American Institute of Physics
Variant title Soviet Physics-Technical Physics
Print and electronic

Print and electronic
Virtual journal of applications of superconductivity. 1 (2001)- American Institute of Physics, American Physical Society
Multijournal compilation of the latest research in superconducting electronics, materials, and large-scale systems
Electronic

Virtual journal of biological physics research. 1 (2000)- American Institute of Physics, American Physical Society
Multijournal compilation of the latest research on biological physics
Electronic

Virtual journal of nanoscale science and technology. 1 (2000)- American Institute of Physics, American Physical Society
Multijournal compilation of the latest research on nanoscale systems
Electronic

Virtual journal of quantum information. 1 (2001)- American Institute of Physics, American Physical Society
Multijournal compilation of the latest research on quantum computing, cryptography, and communication
Electronic

Virtual journal of ultrafast science. 1 (2002)- American Institute of Physics, American Physical Society
Multijournal compilation of the latest research on ultrafast phenomena
Electronic

Waves in random media. 1 (1991)- ISSN 0959-7174 Institute of Physics
Print and electronic, archive fully available electronically

Zeitschrift fur naturforschung A: a journal of physical sciences. 1 (1946)- ISSN 0932-0784 Verlag der Zeitschrift fur Naturforschung, Tubingen
Continues Zeitschrift fur Naturforschung 1 (1946) founded in the Institutes of the Max Planck Gesellschaft and other variant section titles
Print

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