

**Reviews of Modern Plasma Physics Volume 1 <https://link.springer.com/journal/41614/1/1>**

Authors	Title	Article number	DOI	Sharable link
G. K. Park, et al	Shocks in collisionless plasmas	Rev. Mod. Plasma Phys. (2017) 1:1	DOI 10.1007/s41614-017-0003-4	<a href="https://rdcu.be/bGrqr">https://rdcu.be/bGrqr</a>
P. Kaw	Nonlinear laser–plasma interactions [ Chandrasekhar Lecture ]	Rev. Mod. Plasma Phys. (2017) 1:2	DOI 10.1007/s41614-017-0005-2	<a href="https://rdcu.be/bGrq0">https://rdcu.be/bGrq0</a>
H. Tanaka, et al.	State of the art in medical applications using non-thermal atmospheric pressure plasma	Rev. Mod. Plasma Phys. (2017) 1:3	DOI 10.1007/s41614-017-0004-3	<a href="https://rdcu.be/bGrrb">https://rdcu.be/bGrrb</a>
P. H. Yoon	Kinetic instabilities in the solar wind driven by temperature anisotropies	Rev. Mod. Plasma Phys. (2017) 1:4	DOI 10.1007/s41614-017-0006-1	<a href="https://rdcu.be/bGrrE">https://rdcu.be/bGrrE</a>
D. B. Melrose	Coherent emission mechanisms in astrophysical plasmas [Chandrasekhar Lecture ]	Rev. Mod. Plasma Phys. (2017) 1:5	DOI 10.1007/s41614-017-0007-0	<a href="https://rdcu.be/bGrrY">https://rdcu.be/bGrrY</a>
S. Ichimaru	Phase transitions, interparticle correlations, and elementary processes in dense plasmas [Chandrasekhar Lecture]	Rev. Mod. Plasma Phys. (2017) 1:6	DOI 10.1007/s41614-017-0008-z	<a href="https://rdcu.be/bGrSf">https://rdcu.be/bGrSf</a>
R. Hatakeyama	Nanocarbon materials fabricated using plasmas	Rev. Mod. Plasma Phys. (2017) 1:7	DOI 10.1007/s41614-017-0009-y	<a href="https://rdcu.be/bGrtn">https://rdcu.be/bGrtn</a>
A. Sen	Obituary: Predhiman Krishan Kaw	Rev. Mod. Plasma Phys. (2017) 1:8	DOI 10.1007/s41614-017-0012-3	<a href="https://rdcu.be/bGrTG">https://rdcu.be/bGrTG</a>
H. Sugama	Modern gyrokinetic formulation of collisional and turbulent transport in toroidally rotating plasmas	Rev. Mod. Plasma Phys. (2017) 1:9	DOI 10.1007/s41614-017-0010-5	<a href="https://rdcu.be/bGrUa">https://rdcu.be/bGrUa</a>
Q. Zong et al.	The interaction of ultra-low-frequency pc3-5 waves with charged particles in Earth’s magnetosphere	Rev. Mod. Plasma Phys. (2017) 1:10	DOI 10.1007/s41614-017-0011-4	<a href="https://rdcu.be/bGrvg">https://rdcu.be/bGrvg</a>

**Reviews of Modern Plasma Physics Volume 2 <https://link.springer.com/journal/41614/2/1>**

A. Hillier	The magnetic Rayleigh–Taylor instability in solar prominences	Rev. Mod. Plasma Phys. (2018) 2:1	DOI 10.1007/s41614-017-0013-2	<a href="https://rdcu.be/bYIZi">https://rdcu.be/bYIZi</a>
A.E. Dubinov, et al	Above the weak nonlinearity: super-nonlinear waves in astrophysical and laboratory plasmas	Rev. Mod. Plasma Phys. (2018) 2:2	DOI 10.1007/s41614-018-0014-9	<a href="https://rdcu.be/bYIZd">https://rdcu.be/bYIZd</a>
J. Li, et al	Summary of magnetic fusion plasma physics in 1st AAPPS-DPP meeting	Rev. Mod. Plasma Phys. (2018) 2:3	DOI 10.1007/s41614-018-0015-8	<a href="https://rdcu.be/bYIYQ">https://rdcu.be/bYIYQ</a>
O. Baranov, et al	Towards universal plasma-enabled platform for the advanced nanofabrication: plasma physics level approach	Rev. Mod. Plasma Phys. (2018) 2:4	DOI 10.1007/s41614-018-0016-7	<a href="https://rdcu.be/bYIYo">https://rdcu.be/bYIYo</a>
P.F. Chen, et al.	Recent progress in Asia-Pacific solar physics and astrophysics	Rev. Mod. Plasma Phys. (2018) 2:5	DOI 10.1007/s41614-018-0017-6	<a href="https://rdcu.be/bYIYj">https://rdcu.be/bYIYj</a>
A. Sen	Summary of basic plasma physics sessions at the first Asia Pacific Plasma Conference, 2017	Rev. Mod. Plasma Phys. (2018) 2:6	DOI 10.1007/s41614-018-0018-5	<a href="https://rdcu.be/bYIX6">https://rdcu.be/bYIX6</a>
D. Moseev, et al.	Recent progress in fast-ion diagnostics for magnetically confined plasmas	Rev. Mod. Plasma Phys. (2018) 2:7	DOI 10.1007/s41614-018-0019-4	<a href="https://rdcu.be/bYIXV">https://rdcu.be/bYIXV</a>
Z.M. Sheng	Summary of laser plasma physics sessions at the first AAPPS-DPP conference	Rev. Mod. Plasma Phys. (2018) 2:8	DOI 10.1007/s41614-018-0020-y	<a href="https://rdcu.be/bYIXH">https://rdcu.be/bYIXH</a>
D.F. Escande et al	Basic microscopic plasma physics from N-body mechanics - A tribute to Pierre-Simon de Laplace	Rev. Mod. Plasma Phys. (2018) 2:9	DOI 10.1007/s41614-018-0021-x	<a href="https://rdcu.be/bYIXl">https://rdcu.be/bYIXl</a>

**Reviews of Modern Plasma Physics Volume 3 <https://link.springer.com/journal/41614/3/1>**

Y. Todo	Introduction to the interaction between energetic particles and Alfvén eigenmodes in toroidal plasmas	Rev. Mod. Plasma Phys. (2019) 3:1	DOI 10.1007/s41614-018-0022-9	<a href="https://rdcu.be/bYKqb">https://rdcu.be/bYKqb</a>
S. Fujita	Response of the magnetosphere–ionosphere system to sudden changes in solar wind dynamic pressure	Rev. Mod. Plasma Phys. (2019) 3:2	DOI 10.1007/s41614-019-0025-1	<a href="https://rdcu.be/bYKqI">https://rdcu.be/bYKqI</a>
K. Takahashi	Helicon-type radiofrequency plasma thrusters and magnetic plasma nozzles	Rev. Mod. Plasma Phys. (2019) 3:3	DOI 10.1007/s41614-019-0024-2	<a href="https://rdcu.be/bYKqF">https://rdcu.be/bYKqF</a>
M. Xu et al	Summary of the fundamental plasma physics session in the first AAPPS-DPP conference	Rev. Mod. Plasma Phys. (2019) 3:4	DOI 10.1007/s41614-019-0028-y	<a href="https://rdcu.be/bYKqI">https://rdcu.be/bYKqI</a>
Z. Zhang et al	A review of the characterization and optimization of ablative pulsed plasma thrusters	Rev. Mod. Plasma Phys. (2019) 3:5	DOI 10.1007/s41614-019-0027-z	<a href="https://rdcu.be/bYKq2">https://rdcu.be/bYKq2</a>
D.R. Lev et al	Recent progress in research and development of hollow cathodes for electric propulsion	Rev. Mod. Plasma Phys. (2019) 3:6	DOI 10.1007/s41614-019-0026-0	<a href="https://rdcu.be/bYKq7">https://rdcu.be/bYKq7</a>
O. Baranov, et al	Direct current arc plasma thrusters for space applications: basic physics, design and perspectives	Rev. Mod. Plasma Phys. (2019) 3:7	DOI 10.1007/s41614-019-0023-3	<a href="https://rdcu.be/bYKrj">https://rdcu.be/bYKrj</a>
J. Weiland et al	A. Drift wave theory for transport in tokamaks	Rev. Mod. Plasma Phys. (2019) 3:8	DOI 10.1007/s41614-019-0029-x	<a href="https://rdcu.be/bYKrm">https://rdcu.be/bYKrm</a>
M.Y. Tanaka	Vortex in plasma	Rev. Mod. Plasma Phys. (2019) 3:9	DOI 10.1007/s41614-019-0031-3	<a href="https://rdcu.be/bITXi">https://rdcu.be/bITXi</a>
Y. Feng et al	Dynamics and transport of magnetized two-dimensional Yukawa liquids	Rev. Mod. Plasma Phys. (2019) 3:10	DOI 10.1007/s41614-019-0032-2	<a href="https://rdcu.be/bITXy">https://rdcu.be/bITXy</a>
D. Kahnfeld et al	Numerical modeling of high efficiency multistage plasma thrusters for space applications	Rev. Mod. Plasma Phys. (2019) 3:11	DOI 10.1007/s41614-019-0030-4	<a href="https://rdcu.be/bYKrv">https://rdcu.be/bYKrv</a>
F. Taccogna et al	Latest progress in Hall thrusters plasma modelling	Rev. Mod. Plasma Phys. (2019) 3:12	DOI 10.1007/s41614-019-0033-1	<a href="https://rdcu.be/bITXF">https://rdcu.be/bITXF</a>
G. Manfredi et al	Phase-space modeling of solid-state plasmas	Rev. Mod. Plasma Phys. (2019) 3:13	DOI 10.1007/s41614-019-0034-0	<a href="https://rdcu.be/bYKsa">https://rdcu.be/bYKsa</a>
R. Keppens et al	Ideal MHD instabilities for coronal mass ejections: interacting current channels and particle acceleration	Rev. Mod. Plasma Phys. (2019) 3:14	DOI 10.1007/s41614-019-0035-z	<a href="https://rdcu.be/bITXP">https://rdcu.be/bITXP</a>
Y. Ding et al	Extending service life of hall thrusters: recent progress and future challenges	Rev. Mod. Plasma Phys. (2019) 3:15	DOI 10.1007/s41614-019-0036-y	<a href="https://rdcu.be/bITYt">https://rdcu.be/bITYt</a>

**Reviews of Modern Plasma Physics Volume 4 <https://link.springer.com/journal/41614/4/1>**

J. Hong et al	Plasma-digital nexus: plasma nanotechnology for the digital manufacturing age	Rev. Mod. Plasma Phys. (2020) 4:1	DOI 10.1007/s41614-019-0039-8	<a href="https://rdcu.be/bITX4">https://rdcu.be/bITX4</a>
Y. Ebihara et al	Evolution of auroral substorm as viewed from MHD simulations: dynamics, energy transfer and energy conversion	Rev. Mod. Plasma Phys. (2020) 4:2	DOI 10.1007/s41614-019-0037-x	<a href="https://rdcu.be/bITYe">https://rdcu.be/bITYe</a>
H. Saleem et al	Theoretical models for unstable IAWs and nonlinear structures in the upper ionosphere	Rev. Mod. Plasma Phys. (2020) 4:3	DOI 10.1007/s41614-019-0038-9	<a href="https://rdcu.be/bITYj">https://rdcu.be/bITYj</a>
F. Sahraoui et al.	Magnetohydrodynamic and kinetic scale turbulence in the near-Earth space plasmas: a (short) biased review	Rev. Mod. Plasma Phys. (2020) 4:4	DOI 10.1007/s41614-020-0040-2	<a href="https://rdcu.be/b4uG0">https://rdcu.be/b4uG0</a>
T.G. Blackburn	Radiation reaction in electron–beam interactions with high-intensity lasers	Rev. Mod. Plasma Phys. (2020) 4:5	DOI 10.1007/s41614-020-0042-0	<a href="https://rdcu.be/b4uHa">https://rdcu.be/b4uHa</a>
A.E. Dubinov et al.	Research with plasma foci in countries of Asia, Africa, and Latin America	Rev. Mod. Plasma Phys. (2020) 4:6	DOI 10.1007/s41614-020-0041-1	<a href="https://rdcu.be/b4uHm">https://rdcu.be/b4uHm</a>
T. Tajima et al.	Wakefield acceleration [Chandrasekhar Lecture]	Rev. Mod. Plasma Phys. (2020) 4:7	DOI 10.1007/s41614-020-0043-z	<a href="https://rdcu.be/b4uHx">https://rdcu.be/b4uHx</a>
D.B. Melrose	Quantum kinetic theory for unmagnetized and magnetized plasmas	Rev. Mod. Plasma Phys. (2020) 4:8	DOI 10.1007/s41614-020-00044-8	<a href="https://rdcu.be/b6qP4">https://rdcu.be/b6qP4</a>
L.C. Lee	Fluid and kinetic aspects of magnetic reconnection and some related magnetospheric phenomena [Chandrasekhar Lecture]	Rev. Mod. Plasma Phys. (2020) 4:9	DOI 10.1007/s41614-020-00045-7	<a href="https://rdcu.be/cbOx9">https://rdcu.be/cbOx9</a>
A. Das	Laser plasma session: AAPPS-DPP Conference, 12–17 Nov 2018, Kanazawa	Rev. Mod. Plasma Phys. (2020) 4:10	DOI 10.1007/s41614-020-00046-6	<a href="https://rdcu.be/cbOx3">https://rdcu.be/cbOx3</a>
W. Zhong	Recent progress on turbulence and multi-scale interactions in tokamak plasmas [Special Topics]	Rev. Mod. Plasma Phys. (2020) 4:11	DOI 10.1007/s41614-020-00047-5	<a href="https://rdcu.be/cbOxL">https://rdcu.be/cbOxL</a>
G. Ganguri	Behavior of compressed plasmas in magnetic fields	Rev. Mod. Plasma Phys. (2020) 4:12	DOI 10.1007/s41614-020-00048-4	<a href="https://rdcu.be/cbQw5">https://rdcu.be/cbQw5</a>

