



Canadian Research
Knowledge Network
Réseau canadien
de documentation
pour la recherche

March 3, 2025

IOP Publishing Ltd.
No. 2, The Distillery, Glassfields,
Avon Street,
Bristol, BS2 0GR
United Kingdom

Attention: Julian Wilson, Chief Sales Officer

Dear Mr. Wilson:

Re: License Agreement between IOP Publishing Ltd ("Licensor") and the Canadian Research Knowledge Network ("Licensee") dated March 7, 2019 as such License Agreement may have been amended or supplemented from time to time ("the License Agreement")

This amending letter shall constitute an amendment of the License Agreement:

- to extend the term of the License Agreement to December 31, 2027
 - to amend **Schedule 1 – Licensed Materials and Access Method**
 - to amend **Schedule 2 – Fee** to incorporate fees for the 2025-2027 period
 - to amend **Schedule 3 – Members Participating in the License Agreement**
 - to amend **Schedule 4 – IP Addresses of the Members**
 - to delete clause 3.9 TEXT AND DATA MINING
 - to add **Schedule 7 – Text and Data Mining (AI)**
1. With respect to **Schedule 1 – Licensed Materials and Access Method**, the Schedule is hereby amended per the Schedule attached herein.
 2. With respect to **Schedule 2 – Fee**, the Schedule is hereby amended per the Schedule attached herein.
 3. With respect to **Schedule 3 – Members Participating in this License Agreement**, the Schedule is hereby amended per the Schedule attached herein.
 4. With respect to **Schedule 4 – IP Addresses of the Members**, the Schedule is hereby amended per the Schedule attached herein.
 5. With respect to **Clause 3.9 TEXT AND DATA MINING**, this clause is hereby deleted.
 6. With respect to **Schedule 7 – Text and Data Mining (AI)**, this schedule is hereby added as attached herein.

Please indicate your agreement to the terms set out herein by signing this amending letter electronically, retaining a copy for your files, and returning a copy to CRKN.

FOR LICENSOR: **IOP Publishing Ltd.**

Signature: _____ Date: _____

Name (in block capitals): _____

Position / Title: _____

FOR LICENSEE: **CANADIAN RESEARCH KNOWLEDGE NETWORK**

Signature: _____ Date: _____

Name (in block capitals): _____ Clare Appavoo

Position / Title: _____ Executive Director

SCHEDULE 1

LICENSED MATERIALS AND ACCESS METHOD

A schedule dated March 3, 2025 to the License Agreement dated March 7, 2019 as such License Agreement may have been amended or supplemented from time to time between **IOP PUBLISHING LIMITED** and **CANADIAN RESEARCH KNOWLEDGE NETWORK**

THE LICENSED MATERIALS

License Agreement Start Date: January 1, 2025

License Agreement End Date: December 31, 2027

1. Read Access Titles

The License Agreement provides read access to the titles listed below. Read Access Titles will include New Titles (start-up titles launched at Volume 1, Issue 1) after initial free access period ends, per Licensor's publishing roadmap. Transfer titles (acquired from other publishers and/or which Licensor starts to publish on behalf of third parties) are not included automatically and are subject to negotiation between Licensor and Licensee.

Titles	P-ISSN / E-ISSN	Start Year	End Year
2D Materials	2053-1583	2014	2025
Advances in Natural Sciences: Nanoscience and Nanotechnology	2043-6262	2019	2025
Applied Physics Express	1882-0786	2008	2023
Biofabrication	1758-5090	2009	2025
Bioinspiration & Biomimetics	1748-3190	2006	2025
Biomedical Materials	1748-605X	2006	2025
Biomedical Physics & Engineering Express	2057-1976	2015	2025
Chinese Physics B	1674-1056	2008	2025
Formerly: Chinese Physics	1009-1963	2000	2007
Formerly: Acta Physica Sinica (Overseas Edition)	1004-423X	1992	1999
Chinese Physics C	1674-1137	2008	2025
Chinese Physics Letters	0256-307X	1984	2025
Classical and Quantum Gravity	0264-9381	1984	2025
Communications in Theoretical Physics	0253-6102	1982	2025
Computational Science & Discovery	1749-4699	2008	2015

Convergent Science Physical Oncology	2057-1739	2015	2018
Distributed Systems Engineering	0967-1846	1993	1999
ECS Electrochemistry Letters	2162-8734	2012	2015
ECS Journal of Solid State Science and Technology	2162-8777	2012	2025
ECS Meeting Abstracts*	2151-2043	2006	2025
ECS Proceedings Volumes	2576-1579	1976	2005
ECS Solid State Letters	2162-8750	2012	2015
ECS Transactions	1938-5862	2006	2024
Electrochemical and Solid State Letters	1944-8775	1998	2012
Electrochemical Society Interface	1944-8783	1992	2025
Electronic Structure	2516-1075	2019	2025
Engineering Research Express*	2631-8695	2019	2025
EPL	0295-5075	1986	2025
European Journal of Physics	0143-0807	1980	2025
Flexible and Printed Electronics	2058-8585	2016	2025
Fluid Dynamics Research	1873-7005	1986	2025
Functional Composites and Structures	2631-6331	2019	2025
Inverse Problems	0266-5611	1985	2025
Izvestiya: Mathematics	1064-5632	1993	2022
Formerly: Mathematics of the USSR – Izvestiya	0025-5726	1967	1992
Japanese Journal of Applied Physics	1347-4065	1962	2025
Journal of Breath Research	1752-7163	2007	2025
Journal of Cosmology and Astroparticle Physics	1475-7516	2003	2025
Journal of High Energy Physics	1126-6708	1997	2009
Journal of Instrumentation	1748-0221	2006	2025
Journal of Micromechanics and Microengineering	0960-1317	1991	2025
Journal of Neural Engineering	1741-2552	2004	2025

Journal of Optics	2040-8986	2010	2025
Formerly: Journal of Optics A: Pure and Applied Optics (from 1999)	1464-4258	1999	2009
Formerly: Pure and Applied Optics: Journal of the European Optical Society Part A (1992-1998)	0963-9659	1992	1998
Formed by Merger of Journal of Optics and Pure and Applied Optics: Journal of the European Optical Society Part A	0150-536X	1977	1998
Formerly: Nouvelle Revue d'Optique (1973-1976)	0335-7368	1973	1976
Formerly: Nouvelle Revue d'Optique Appliquée (1970-1972)	0029-4780	1970	1972
Journal of Physics A: Mathematical and Theoretical	1751-8121	2007	2025
Formerly: Journal of Physics A: Mathematical and General (1975-2006)	0305-4470	1975	2006
Formerly: Journal of Physics A: Mathematical, Nuclear and General (1973-1974)	0301-0015	1973	1974
Formerly: Journal of Physics A: General Physics (1968-1972)	0022-3689	1968	1972
Journal of Physics B: Atomic, Molecular and Optical Physics	0953-4075	1988	2025
In 2006 this journal merged with Journal of Optics B: Quantum & Semiclassical Optics (1999-2005)	1464-4266	1999	2005
Formerly: Quantum and Semiclassical Optics: Journal of the European Optical Society Part B (1995-1998)	1355-5111	1995	1998
Formerly: Quantum Optics: Journal of the European Optical Society Part B (1989-1994)	0954-8998	1989	1994
Formerly: Journal of Physics B: Atomic and Molecular Physics (1968-1987)	0022-3700	1968	1987
Journal of Physics D: Applied Physics	0022-3727	1968	2025
Formerly: British Journal of Applied Physics (1950-1967)	0508-3443	1950	1967
Journal of Physics G: Nuclear and Particle Physics	0954-3899	1989	2025
Formerly: Journal of Physics G: Nuclear Physics (1975-1988)	0305-4616	1975	1988
Journal of Physics: Condensed Matter	0953-8984	1989	2025
Formerly: Journal of Physics C: Solid State Physics (1968-1988)	0022-3719	1968	1988
Formerly: Journal of Physics F: Metal Physics (1971-1988)	0305-4608	1971	1988

Journal of Radiological Protection	0952-4746	1988	2025
Formerly: Journal of the Society for Radiological Protection (1981 - 1987)	0260-2814	1981	1987
Journal of Semiconductors	1674-4926	2009	2025
Journal of Statistical Mechanics: Theory and Experiment	1742-5468	2004	2025
Journal of the Electrochemical Society	1945-7111	1948	2025
Formerly: Transactions of the Electrochemical Society	1945-6859	1931	1947
Formerly: Transactions of the American Electrochemical Society	2156-7395	1930	1930
Laser Physics	1555-6611	2013	2025
Laser Physics Letters	1612-202X	2004	2025
Materials Research Express	2053-1591	2014	2019
Measurement Science and Technology	0957-0233	1990	2025
Formerly: Journal of Physics E: Scientific Instruments (1968-1989)	0022-3735	1968	1989
Formerly: Journal of Scientific Instruments (1923-1967)	0950-7671	1923	1967
Methods and Applications in Fluorescence	2050-6120	2013	2025
Metrologia	0026-1394	1965	2025
Modelling and Simulation in Materials Science and Engineering	0965-0393	1992	2025
Multifunctional Materials	2399-7532	2018	2022
Nano Futures	2399-1984	2017	2025
Nanotechnology	0957-4484	1990	2025
Nonlinearity	0951-7715	1988	2025
Nuclear Fusion	0029-5515	1960	2022
Physica Scripta	1402-4896	1970	2025
Physical Biology	1478-3975	2004	2025
Physics Education	0031-9120	1966	2025
Physics in Medicine & Biology	0031-9155	1956	2025

Physics in Technology	0305-4624	1973	1988
Formerly: Review of Physics in Technology	0034-6683	1970	1972
Physics World	2058-7058	1988	2025
Formerly: Physics Bulletin	0031-9112	1950	1988
Physics-Uspekhi	1063-7869	1993	2022
Formerly: Soviet Physics Uspekhi (1958–1992)	0038-5670	1958	1992
Physiological Measurement	0967-3334	1993	2025
Formerly: Clinical Physics and Physiological Measurement (1980-1992)	0143-0815	1980	1992
Plasma Physics and Controlled Fusion	0741-3335	1984	2025
Formerly: Plasma Physics (1967-1983)	0032-1028	1967	1983
Formerly: Journal of Nuclear Energy Part C, Plasma Physics, Accelerators, Thermonuclear Research (1959-1966)	0368-3281	1959	1966
Plasma Research Express	2516-1067	2018	2022
Plasma Science and Technology	1009-0630	1999	2025
Plasma Sources Science and Technology	0963-0252	1992	2025
Proceedings of the Physical Society (1958-1967)	0370-1328	1958	1967
Formerly: Proceedings of the Physical Society. Section A (1949-1957)	0370-1298	1949	1957
Formerly: Proceedings of the Physical Society. Section B (1949-1957)	0370-1301	1949	1957
Formerly: Proceedings of the Physical Society (1926-1948)	0959-5309	1926	1948
Formerly: Proceedings of the Physical Society of London (1874-1925)	1478-7814	1874	1925
Progress in Biomedical Engineering	2516-1091	2019	2025
Progress in Energy	2516-1083	2019	2025
Publications of the Astronomical Society of the Pacific	1538-3873	1889	2025
Quantum Electronics	1063-7818	1993	2022
Formerly: Soviet Journal of Quantum Electronics (1971-1992)	0049-1748	1971	1992

Quantum Science and Technology	2058-9565	2016	2025
Reports on Progress in Physics	0034-4885	1934	2025
Research in Astronomy and Astrophysics	1674-4527	2009	2025
Formerly: Chinese Journal of Astronomy and Astrophysics (2001-2008)	1009-9271	2001	2008
Russian Chemical Reviews	0036-021X	1960	2022
Russian Mathematical Surveys	0036-0279	1960	2022
Sbornik: Mathematics	1064-5616	1993	2022
Formerly: Mathematics of the USSR – Sbornik (1967-1993)	0025-5734	1967	1993
Science and Technology of Advanced Materials	1468-6996	2000	2015
Semiconductor Science and Technology	0268-1242	1986	2025
Smart Materials and Structures	0964-1726	1992	2025
Superconductor Science and Technology	0953-2048	1988	2025
Surface Topography: Metrology and Properties	2051-672X	2013	2025
Transactions of the Optical Society	1475-4878	1899	1932
Translational Materials Research	2053-1613	2014	2018

***Free to read in 2025; not eligible for Continued Access Rights.**

Sbornik: Mathematics Volumes re-numbered in 1995 – no gap in volume

Izvestiya: Mathematics Volumes re-numbered in 1995 – no gap in volume

2. Eligible Publishing Titles

These titles are Eligible Publishing Titles under the terms of this License Agreement.

Titles	P-ISSN / E-ISSN	Type
2D Materials	2053-1583	Hybrid OA
Applied Physics Express	1882-0786	Gold OA
Biofabrication	1758-5090	Hybrid OA
Bioinspiration & Biomimetics	1748-3190	Hybrid OA
Biomedical Materials	1748-605X	Hybrid OA
Biomedical Physics & Engineering Express	2057-1976	Hybrid OA

Classical and Quantum Gravity	0264-9381	Hybrid OA
ECS Advances	2754-2734	Gold OA
ECS Journal of Solid State Science and Technology	2162-8777	Hybrid OA
ECS Sensors Plus	2754-2726	Gold OA
Electronic Structure	2516-1075	Hybrid OA
Engineering Research Express	2631-8695	Hybrid OA
Environmental Research Communications	2515-7620	Gold OA
Environmental Research Letters	1748-9326	Gold OA
Environmental Research: Climate	2752-5295	Gold OA
Environmental Research: Ecology	2752-664X	Gold OA
Environmental Research: Health	2752-5309	Gold OA
Environmental Research: Infrastructure and Sustainability	2634-4505	Gold OA
EPL	0295-5075	Hybrid OA
European Journal of Physics	0143-0807	Hybrid OA
Flexible and Printed Electronics	2058-8585	Hybrid OA
Fluid Dynamics Research	1873-7005	Hybrid OA
Functional Composites and Structures	2631-6331	Hybrid OA
Inverse Problems	0266-5611	Hybrid OA
Japanese Journal of Applied Physics	1347-4065	Hybrid OA
Journal of Breath Research	1752-7163	Hybrid OA
Journal of Cosmology and Astroparticle Physics	1475-7516	Hybrid OA
Journal of Instrumentation	1748-0221	Hybrid OA
Journal of Micromechanics and Microengineering	0960-1317	Hybrid OA
Journal of Neural Engineering	1741-2552	Hybrid OA
Journal of Optics	2040-8986	Hybrid OA
Journal of Physics A: Mathematical and Theoretical	1751-8121	Hybrid OA
Journal of Physics B: Atomic, Molecular and Optical Physics	0953-4075	Hybrid OA

Journal of Physics Communications	2399-6528	Gold OA
Journal of Physics D: Applied Physics	0022-3727	Hybrid OA
Journal of Physics G: Nuclear and Particle Physics	0954-3899	Hybrid OA
Journal of Physics: Complexity	2632-072X	Gold OA
Journal of Physics: Condensed Matter	0953-8984	Hybrid OA
Journal of Physics: Energy	2515-7655	Gold OA
Journal of Physics: Materials	2515-7639	Gold OA
Journal of Physics: Photonics	2515-7647	Gold OA
Journal of Radiological Protection	0952-4746	Hybrid OA
Journal of Statistical Mechanics: Theory and Experiment	1742-5468	Hybrid OA
Journal of the Electrochemical Society	1945-7111	Hybrid OA
Laser Physics	1555-6611	Hybrid OA
Laser Physics Letters	1612-202X	Hybrid OA
Machine Learning: Science and Technology	2632-2153	Gold OA
Materials for Quantum Technology	2633-4356	Gold OA
Materials Research Express	2053-1591	Gold OA
Measurement Science and Technology	0957-0233	Hybrid OA
Methods and Applications in Fluorescence	2050-6120	Hybrid OA
Metrologia	0026-1394	Hybrid OA
Modelling and Simulation in Materials Science and Engineering	0965-0393	Hybrid OA
Nano Express	2632-959X	Gold OA
Nano Futures	2399-1984	Hybrid OA
Nanotechnology	0957-4484	Hybrid OA
Neuromorphic Computing and Engineering	2634-4386	Gold OA
New Journal of Physics	1367-2630	Gold OA
Nonlinearity	0951-7715	Hybrid OA
Nuclear Fusion	0029-5515	Gold OA

Physica Scripta	1402-4896	Hybrid OA
Physical Biology	1478-3975	Hybrid OA
Physics Education	0031-9120	Hybrid OA
Physics in Medicine & Biology	0031-9155	Hybrid OA
Physiological Measurement	0967-3334	Hybrid OA
Plasma Physics and Controlled Fusion	0741-3335	Hybrid OA
Plasma Sources Science and Technology	0963-0252	Hybrid OA
Progress in Biomedical Engineering	2516-1091	Hybrid OA
Progress in Energy	2516-1083	Hybrid OA
Publications of the Astronomical Society of the Pacific	1538-3873	Hybrid OA
Quantum Science and Technology	2058-9565	Hybrid OA
Reports on Progress in Physics	0034-4885	Hybrid OA
Semiconductor Science and Technology	0268-1242	Hybrid OA
Smart Materials and Structures	0964-1726	Hybrid OA
Superconductor Science and Technology	0953-2048	Hybrid OA
Surface Topography: Metrology and Properties	2051-672X	Hybrid OA

Reports on Progress in Physics: only original research papers can qualify as Eligible Articles.

3. Excluded Publishing Titles

These titles are excluded from the publishing terms of this License Agreement.

Titles	Journal Type	E-ISSN
The Astronomical Journal	Gold OA	2053-1583
The Astrophysical Journal	Gold OA	1882-0786
The Astrophysical Journal Letters	Gold OA	1758-5090
The Astrophysical Journal Supplement Series	Gold OA	1748-3190
The Planetary Science Journal	Gold OA	1748-605X
ECS Meeting Abstracts	Conference	2057-1976
ECS Transactions	Conference	1361-6382
IOP Conference Series: Earth and Environmental Science	Conference	2162-8777
IOP Conference Series: Materials Science and Engineering	Conference	2516-1075
Journal of Physics: Conference Series	Conference	2631-8695
Advances in Natural Sciences: Nanoscience and Nanotechnology	Subscription Only	1361-6404

Chinese Physics B	Subscription Only	1286-4854
Chinese Physics Letters	Subscription Only	2058-8585
Communications in Theoretical Physics	Subscription Only	1873-7005
Journal of Semiconductors	Subscription Only	2631-6331
Plasma Science and Technology	Subscription Only	1361-6420
Research in Astronomy and Astrophysics	Subscription Only	1347-4065
Chinese Physics C	Subscription Only	1752-7163
Izvestiya: Mathematics	Subscription Only	1475-7516
Physics-Uspekhi	Subscription Only	1748-0221
Quantum Electronics	Subscription Only	1361-6439
Russian Chemical Reviews	Subscription Only	1741-2552
Russian Mathematical Surveys	Subscription Only	2040-8986
Sbornik: Mathematics	Subscription Only	1751-8121
Reports on Progress in Physics	Subscription Only	1361-6455

4. IOP Ebooks

A subset of participants (as specified in Schedule 3) have purchased IOP ebooks. These ebooks are a one-time purchase with perpetual access rights with no ongoing hosting fees. The ebooks are free from Digital Rights Management (DRM) restrictions, can be locally loaded (including on Scholars Portal), and there are no limits on concurrent users.

ACCESS METHOD

Unlimited use of the Licensed Materials on the Platform.

User authentication mechanisms supported are:

IP Authentication
Shibboleth

CONTINUED ACCESS

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If, at any time, IOP ceases to publish or distribute any of the Available Content then it will use its reasonable endeavours to negotiate the right for the Customer to continue to access it in accordance with these terms and conditions.

SCHEDULE 2 FEE

A schedule dated March 3, 2025 to the License Agreement dated March 7, 2019 as such License Agreement may have been amended or supplemented from time to time between **IOP PUBLISHING LIMITED** and **CANADIAN RESEARCH KNOWLEDGE NETWORK**

All fees in US dollars.

The license period is for a period of 12 months and runs from January 1 of any given year to December 31 of the same calendar year. Access is provided to the Licensed Materials for the duration of this time. The fees for a given license period are due on or before the first day of the corresponding license period. Authorized Users will be permitted to access and use the Licensed Materials in accordance with the License Agreement over the course of the journal license period.

Year:	Read Fee:	Publish Fee:	Total Fee:
Journals (License period Jan. 1, 2025 – Dec. 31, 2025)	\$1,060,323.74 USD	\$ 979,421.67 USD	\$2,039,745.41 USD
Journals (License period Jan. 1, 2026 – Dec. 31, 2026)	\$1,047,048.23 USD	\$1,028,392.75 USD	\$2,075,440.98 USD
Journals (License period Jan. 1, 2027 – Dec. 31, 2027)	\$1,037,137.46 USD	\$1,079,812.39 USD	\$2,116,949.85 USD

2025 – 2027 TOTAL FEE: (Agreement Term Jan. 1, 2025 – Dec. 31, 2027) \$6,232,136.24

PAYMENT SCHEDULE

2025 – payable upon execution of this amending letter (net 60 days):	\$2,039,745.41
2026 – payable on or before December 31, 2025:	\$2,075,440.98
2027 – payable on or before December 31, 2026:	\$2,116,949.85

For reference purposes, the Fees incurred per Member are as set out on the attached spreadsheet (filename: CRKN-IOP 2025-2027 Schedule2 2025-03-04.xlsx)

SCHEDULE 3

MEMBERS PARTICIPATING IN THIS LICENSE AGREEMENT

A schedule dated March 3, 2025 to the License Agreement dated March 7, 2019 as such License Agreement may have been amended or supplemented from time to time between **IOP PUBLISHING LIMITED** and **CANADIAN RESEARCH KNOWLEDGE NETWORK**

Member	IOP Journals (Read & Publish)	Release 4 IOP & AAS 1 ebooks	Release 5 IOP & AAS 2 ebooks	Release 6 IOP ebooks	Release 2020 IOP ebooks	Release 2021 IOP ebooks	Release 2022 IOP ebooks	Release 2023 IOP ebooks	Release 2021 AAS ebooks	Release 2022 AAS ebooks	Release 2023 AAS ebooks
ATLANTIC REGION (10)											
Acadia University	X										
Dalhousie University	X										
Memorial University of Newfoundland	X		X	X	X						
Mount Allison University	X										
Mount Saint Vincent University	X										
Saint Mary's University	X										
St. Francis Xavier University	X										
Université de Moncton	X										
University of New Brunswick	X		X	X	X	X	X				
University of Prince Edward Island	X										
QUEBEC (8)											
Bishop's University	X	X							X		
Concordia University	X										
École Polytechnique de Montréal	X	X	X	X							
McGill University	X		X	X		X	X	X	X	X	X
Université de Montréal	X	X									
Université de Sherbrooke	X										
Université du Québec:											
École de technologie supérieure	X										
Institut national de la recherche scientifique	X										
Université Laval*	-		X	X	X	X	X	X	X	X	X
ONTARIO (14)											
Carleton University	X		X								
Lakehead University	X										
McMaster University	X		X	X				X			

Queen's University	X										
Royal Military College	X										
Ryerson University	X										
University of Guelph	X										
University of Ontario Institute of Technology	X		X								
University of Ottawa	X				X		X	X		X	
University of Toronto	X		X	X	X	X	X	X	X	X	X
University of Waterloo	X		X	X	X	X	X	X		X	
University of Windsor	X		X								
Western University	X	X									
York University	X	X	X			X			X		
WESTERN REGION (13)											
Athabasca University	X										
Brandon University*		X									
MacEwan University	X										
Simon Fraser University	X		X	X							
University of Alberta	X		X	X	X	X	X	X	X	X	X
University of British Columbia	X										
University of Calgary	X										
University of Lethbridge	X										
University of Manitoba	X								X		
University of Regina	X										
University of Saskatchewan	X		X				X	X			X
University of Victoria	X										
University of Winnipeg	X										
ASSOCIATE MEMBERS (1)											
National Research Council Canada (NRC)	X										

* For the avoidance of doubt; Université Laval and Brandon University are not included in the 2025-2027 purchase of IOP Journals read and publish services as set out in this License Agreement.

SCHEDULE 4

IP ADDRESSES OF THE MEMBERS

A schedule dated March 3, 2025 to the License Agreement dated March 7, 2019 as such License Agreement may have been amended or supplemented from time to time between **IOP PUBLISHING LIMITED** and **CANADIAN RESEARCH KNOWLEDGE NETWORK**

See spreadsheet attached (filename: CRKN-IOP 2025-2027 Schedule4 2025-03-04.xlsx)

SCHEDULE 7 TEXT AND DATA MINING (AI)

"Artificial Intelligence ("AI") uses" means processes which apply algorithm-based technologies to the Licensed Materials which are intended to solve complex tasks by functions that previously required human thinking. Such uses may include but are not limited to Text and Data Mining.

"Text and Data Mining" means to download, extract and index information from the Licensed Materials. Where required, mount, load and integrate the results on a server used for Licensee's and or its Members' text-mining systems and evaluate and interpret the TDM Output. Members shall use all reasonable efforts to ensure compliance with this License Agreement, including security and technical access requirements.

"AI and Text and Data Mining Output" ("Output") means the result of any AI and/or Text and Data Mining activity or operation, capable of fixation, reproduction and/or communication in any form, including, but not limited to, the creation of an index, reference, abstract, relative or absolute description or representation of the Licensed Materials, an algorithm, formula, metrics, method, standard or taxonomy describing or based on the Licensed Materials, a relational expression or measurement, whether scalable or not, of the Licensed Materials, extraction, alternative representation or translation, expression or discussion of any extracts from mined Licensed Materials, whether in the form of a direct extraction or a representation in any form which is based on the Licensed Materials.

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 - 2.2 use a third-party tool whereby any part of the Licensed Materials would be accessible by anyone other than Licensee, its Members, and Authorized Users;
 - 2.3 utilise the Output to enhance institutional or subject repositories in a way that would compete with the value of the final peer reviewed articles in the Licensed Materials or substitute and/or replicate any other existing Licensor product, service and/or solution;
 - 2.4 extract, develop or use the Licensed Materials in any commercial activity other than for AI and/or Text and Data Mining for the scholarly and educational use of Authorized Users and/or for non-commercial purposes;
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2.6 use any robots, spiders, crawlers or other automated downloading programs, algorithms or devices to continuously and automatically search, scrape, extract, deep link, index or disrupt the working of the Licensed Materials; and/or

2.7 substantially reproduce, retain or redistribute the Licensed Materials.

- 3 Subject to the remaining terms of this Schedule, Authorized Users are free to use the Output and any database rights created as a result of AI and/or Text and Data Mining activities are the sole property of the Authorized Users.
- 4 Any permissions granted to Licensee and its Members to carry out AI and/or Text and Data Mining of the Licensed Materials shall only apply where this License Agreement is in force and/or to those Licensed Materials to which Licensee and its Members have Perpetual Access rights or a current subscription.
- 5 Licensee acknowledges that this License Agreement is intended to cover TDM/AI for scholarly, educational and non-commercial uses of its Members and Authorized Users only. Should Licensee wish to carry out AI for any other purposes then it shall seek permission from Licensor prior to commencing such activities. All rights reserved.

In the event that the Licensee and/or its Members have any queries and/or requests pertaining to this schedule 7 and API access, the Licensee and/or its Members shall notify the Content and Discovery team at ContentDiscovery@iopublishing.org in writing.

Licensor and Licensee both acknowledge the unique challenges and complexities around the emerging artificial intelligence technologies and LLMs and agree to act reasonably and mutually support each other in developing policies and protocols for both parties' benefit, whilst recognising ownership of intellectual property rights in the Licensed Materials and Licensor's wish to protect the same. If there are existing, or if during the term of this License Agreement, any relevant government adopts mandatory laws regarding artificial intelligence in research, such law shall prevail to the extent of its applicability to and/or any inconsistency with this License Agreement. Any provisions of this License Agreement not affected thereby shall remain in full force and effect and "as is".

With respect to the restrictions under this Schedule 7, the parties agree to periodically review in good faith further revisions of this Schedule where materially more favourable terms and conditions may have been offered to any comparable third party by Licensor in a similar position and under similar circumstances.