



Canadian Research
Knowledge Network

Réseau canadien
de documentation
pour la recherche

February 10, 2022

IOP Publishing Ltd.
Temple Circus Temple Way
Bristol BS1 6HG
United Kingdom

Attention: Julian Wilson, Sales and Marketing Director

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 15, 2024;
- to amend clause **1. Definitions**;
- to amend clause **6.5 Title Lists**;
- to amend **Schedule 1 – Licensed Materials and Access Method**;
- to amend **Schedule 2 – Fee** to incorporate fees for the 2021-2024 period;
- to amend **Schedule 3 – Members Participating in this License Agreement**;
- to amend **Schedule 4 – IP Addresses of the Members**
- to remove **Schedule 6 – Authorized Users**
- to add **Schedule 6 – Open Access Publishing**

All references in the License Agreement to the previous Schedule 6 shall be removed.

1. With respect to clause **1. Definitions**, the following definitions are amended or added:

Authorized Users: All current students, staff and faculty of a Member (whether full or part-time, permanent, temporary, contract or visiting appointments), and, for the purposes of the “read” aspect of this License Agreement only, alumni of a Member, in all cases regardless of the physical location of such persons. For the avoidance of doubt, Authorized Users include those persons who are granted library user privileges according to the policies of a Member, including but not limited to retired faculty and staff, again for the purposes of the “read” aspect of this License Agreement only.

Authorized Users include persons affiliated with remote sites or campuses of the Member in the same country as the Member and/or persons affiliated with the Member who are studying overseas at sites or campuses of a third party institution on a temporary basis.

Authorized Users also include individual members of the public (walk-in users) while they are physically on the premises of a Member. For the avoidance of doubt, walk-in use is intended for individual users, not as a substitution for a license by another institution. Members of the public shall lose access upon departure from the premises of the Member. In addition, such persons shall be excluded from all remote access privileges and shall only be included for the “read” aspect of this License Agreement.

Article Publication Charges (APC): the fee Licensor will sometimes charge for making articles Open Access.

Creative Commons Licence: a type of licence allowing an author to communicate which rights they reserve and which they agree to waive in order to enable end-users to benefit from a gratis right to reproduce and distribute (and make derivative works from) the original article. Licensor offers CC-BY and CC-BY-NC-ND, described in more detail on the Creative Commons website and its own website.

Eligible Articles: Articles accepted by Licensor for publication during the Term of the License Agreement, and which are classified as "Article" submission type. For the purpose of determining an Eligible Article, "article" includes but is not limited to: Paper, Special Issue Paper, Review and/or Letter, (intended to cover all original research and review-type content). The submission date of an article does not determine the eligibility of the article.

Eligible Corresponding Author: Individual who, at time of article acceptance, is a current student, staff or faculty of a Member (whether full or part-time, permanent, temporary, contract or visiting appointments).

They (a) have the authority to act on behalf of all co-authors in all matters pertaining to publication of the article including supplementary material (b) are responsible for informing the co-authors of the article's status throughout the submission, review, and publication process and (c) act as the point of contact for any enquiries after an article is published.

For articles written by multiple authors, only the corresponding author indicated on the article when submitted will be considered as a potential Eligible Corresponding Author. Authors will not be permitted to change the author who is designated as corresponding author of their article without approval in writing by Licensor.

Eligible Publishing Title: Titles that arrange Open Access publication by default or by request, where publishing rights are granted under the License Agreement, as listed in Schedule 1 – Licensed Materials and Access Method.

Open Access/OA: A publishing model that allows content to be published digitally and made accessible to the end-user (subject to the terms of the applicable Creative Commons Licence).

Read Access Title: Titles for which read access rights are granted under this License Agreement, listed in Schedule 1 – Licensed Materials and Access Method.

Text and Data Mining: To download, extract and index information from the Licensed Materials for non-commercial purposes, in accordance with Clause 3.9 of this License Agreement. Where required, mount, load and integrate the results on a server used for Licensee and/or the Members' text-mining system and evaluate and interpret the TDM Output. Licensee and the Members shall use all reasonable efforts to ensure compliance with this License Agreement, including security and technical access requirements.

2. With respect to clause **6.5 Title Lists**, the clause is hereby amended as follows:

Licensor shall provide to Licensee before December 31 of each year within the subscription period, in KBART-compliant format as appropriate, an itemized title list that specifies the Licensed Materials accessible to the Members for the upcoming calendar year. Licensor shall also provide an itemized report that specifies which titles will be withdrawn or added to the Licensed Materials for the upcoming calendar year. In the event that there are optional portions contained within the Licensed Materials to which all Members do not subscribe, Licensor shall provide separate lists for each option.

Licensor shall use reasonable efforts to update itemized title lists as soon as is practicable when holdings information changes and shall provide this information to Licensee on a timely basis. Licensee will provide the consortium-specific title lists to knowledge base suppliers.

3. With respect to **Schedule 1 – Licensed Materials and Access Method**, the Schedule is hereby amended per the Schedule attached herein.

4. With respect to **Schedule 2 – Fee**, the Schedule is hereby amended per the Schedule attached herein.
5. With respect to **Schedule 3 – Members Participating in this License Agreement**, the Schedule is hereby amended per the Schedule attached herein.
6. With respect to **Schedule 4 – IP Addresses of the Members**, the Schedule is hereby amended per the Schedule attached herein.
7. With respect to **Schedule 6 – Open Access Publishing**, the Schedule is hereby added per the Schedule attached herein (previous Schedule 6 is deleted).

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 redacted
Signature: _____ Date: February 16, 2022 | 07:21 PST
Name (in block capitals): Julian Wilson
Position / Title: Sales and Marketing Director

FOR LICENSEE: **CANADIAN RESEARCH KNOWLEDGE NETWORK**
Signature redacted
Signature: _____ Date: February 15, 2022
Name (in block capitals): Clare Appavoo
Position / Title: Executive Director

SCHEDULE 1

LICENSED MATERIALS AND ACCESS METHOD

A schedule dated February 10, 2022 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: December 15, 2021

License Agreement End Date: December 14, 2024

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	Access start year	Access end year
2D Materials		2053-1583	2014	2024
Advances in Natural Sciences: Nanoscience and Nanotechnology		2043-6262	2019	2024
Applied Physics Express	1882-0778	1882-0786	2008	2024
Biofabrication	1758-5082	1758-5090	2009	2024
Bioinspiration and Biomimetics	1748-3182	1748-3190	2006	2024
Biomedical Materials	1748-6041	1748-605X	2006	2024
Biomedical Physics & Engineering Express		2057-1976	2015	2024
Chinese Physics B	1674-1056	2058-3834	2008	2024
Formerly: Chinese Physics	1009-1963	1741-4199	2000	2007
Formerly: Acta Physica Sinica (Overseas Edition)	1004-423X		1992	1999
Chinese Physics C	1674-1137	2058-6132	2008	2024
Chinese Physics Letters	0256-307X	1741-3540	1984	2024
Classical and Quantum Gravity	0264-9381	1361-6382	1984	2024
Communications in Theoretical Physics	0253-6102	1572-9494	1982	2024
Computational Science & Discovery	1749-4680	1749-4699	2008	2015
Convergent Science Physical Oncology		2057-1739	2015	2018
Distributed Systems Engineering	0967-1846	1361-6390	1993	1999
ECS Journal of Solid State Science and Technology	2162-8769	2162-8777	2012	2024
ECS Transactions	1938-5862	1938-6737	2005	2024
Formerly: Electrochemical and Solid State Letters		1944-8775	1998	2012
ECS Electrochemistry Letters	2162-8726	2162-8734	2012	2015
ECS Solid State Letters		2162-8750	2012	2015
Journal of The Electrochemical Society	0013-4651	1945-7111	1948	2024
Formerly: Transactions of The Electrochemical Society	0096-4743	1945-6859	1931	1947
Formerly: Transactions of The American Electrochemical Society	0096-4786	2156-7395	1930	1930
Electronic Structure		2516-1075	2019	2024
Europhysics Letters	0295-5075	1286-4854	1986	2024
European Journal of Physics	0143-0807	1361-6404	1980	2024
Flexible and Printed Electronics		2058-8585	2016	2024
Fluid Dynamics Research	0169-5983	1873-7005	1986	2024
Functional Composites and Structures		2631-6331	2018	2024
Inverse Problems	0266-5611	1361-6420	1985	2024
Izvestiya: Mathematics *	1064-5632	1468-4810	1995	2024
Formerly: Russian Academy of Sciences: Izvestiya Mathematics	1064-5632		1993	1995
Formerly: Mathematics of the USSR – Izvestiya	0025-5726		1967	1992
Japanese Journal of Applied Physics	0021-4922	1347-4065	1962	2024
Journal of Breath Research	1752-7155	1752-7163	2007	2024
Journal of Cosmology and Astroparticle Physics		1475-7516	2003	2024
Journal of High Energy Physics		1029-8479	1997	2009
Journal of Instrumentation		1748-0221	2006	2024
Journal of Micromechanics and Microengineering	0960-1317	1361-6439	1991	2024
Journal of Neural Engineering	1741-2560	1741-2552	2004	2024
Journal of Optics	2040-8978	2040-8986	2010	2024

Formerly: Journal of Optics A: Pure and Applied Optics (from 1999)	1464-4258	1741-3567	1999	2009
Formed by the merger of: Journal of Optics (1977-1998)	0150-536X		1977	1998
And: Pure and Applied Optics: Journal of the European Optical Society Part A (1992-1998))	0963-9659	1361-6617	1992	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 (from 2007)	1751-8113	1751-8121	2007	2024
Formerly: Journal of Physics A: Mathematical and General (1975-2006)	0305-4470	1361-6447	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 (from 1988)	0953-4075	1361-6455	1988	2024
Formerly: Journal of Physics B: Atomic and Molecular Physics (1970-1987)	0022-3700		1968	1987
In 2006 this journal merged with Journal of Optics B: Quantum & Semiclassical Optics(1999-2005)	1464-4266	1741-3575	1999	2005
Formerly Quantum and Semiclassical Optics: Journal of the European Optical Society Part B (1995-1998)	1355-5111	1361-6625	1995	1998
Formerly Quantum Optics: Journal of the European Optical Society Part B (1989-1994)	0954-8998		1989	1994
Journal of Physics: Condensed Matter (from 1989)	0953-8984	1361-648X	1989	2024
Formed by the merger of: Journal of Physics C: Solid State Physics (1970-1988)	0022-3719		1968	1988
And: Journal of Physics F: Metal Physics (1971- 1988)	0305-4608		1971	1988
Journal of Physics D: Applied Physics	0022-3727	1361-6463	1968	2024
Formerly British Journal of Applied Physics (1950 – 1967)	0508-3443		1950	1967
Journal of Physics G: Nuclear and Particle Physics	0954-3899	1361-6471	1989	2024
Formerly: Journal of Physics G: Nuclear Physics (1975-1988)	0305-4616		1975	1988
Journal of Radiological Protection	0952-4746	1361-6498	1988	2024
Formerly : Journal of the Society for Radiological Protection (1981 - 1987)	0260-2814		1981	1987
Journal of Semiconductors	1674-4926	2058-6140	2009	2024
Journal of Statistical Mechanics: Theory and Experiment		1742-5468	2004	2024
Laser Physics	1054-660X	1555-6611	2013	2024
Laser Physics Letters	1612-2011	1612-202X	2004	2024
Materials Research Express		2053-1591	2014	2019
Measurement Science and Technology	0957-0233	1361-6501	1990	2024
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	2024
Metrologia	0026-1394	1681-7575	1965	2024
Modelling and Simulation in Materials Science and Engineering	0965-0393	1361-651X	1992	2024
Multifunctional Materials		2399-7532	2018	2024
Nano Futures		2399-1984	2017	2024
Nanotechnology	0957-4484	1361-6528	1990	2024
Nonlinearity	0951-7715	1361-6544	1988	2024
Nuclear Fusion	0029-5515	1741-4326	1960	2024
Physica Scripta	0031-8949	1402-4896	1970	2024
Physical Biology	1478-3967	1478-3975	2004	2024
Physics Education	0031-9120	1361-6552	1966	2024
Physics in Medicine & Biology	0031-9155	1361-6560	1956	2024
Physics in Technology	0305-4624		1973	1988
Formerly: Review of Physics in Technology (1970 – 1972)	0034-6683		1970	1972
Physics-Uspekhi	1063-7869	1468-4780	1993	2024
Formerly: Soviet Physics Uspekhi (1958 – 1992)	0038-5670		1958	1992
Physics Bulletin	1004-423X		1950	1988
Physics World	0953-8585	2058-7058	1988	2024
Physiological Measurement	0967-3334	1361-6579	1993	2024
Formerly: Clinical Physics and Physiological Measurement (1980-1992)	0143-0815		1980	1992
Plasma Physics and Controlled Fusion	0741-3335	1361-6587	1984	2024
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		1959/1960	1966
Plasma Research Express		2516-1067	2019	2024
Plasma Science and Technology	1009-0630	2058-6272	1999	2024
Plasma Sources Science and Technology	0963-0252	1361-6595	1992	2024
Proceedings of the Physical Society (1958-1967)	0370-1328		1958	1967
Proceedings of the Physical Society Section A (1949-1957)	0370-1298		1949	1957
Proceedings of the Physical Society Section B (1949-1957)	0370-1301		1949	1957
Proceedings of the Physical Society (1926-1948)	0959-5309		1926	1948

Proceedings of the Physical Society of London (1874-1925)	1478-7814		1874	1925
Publications of the Astronomical Society of the Pacific	0004-6280	1538-3873	1889	2024
Quantum Electronics	1063-7818	1468-4799	1993	2024
Formerly: Soviet Journal of Quantum Electronics			1971	1992
Quantum Science and Technology		2058-9565	2016	2024
Reports on Progress in Physics	0034-4885	1361-6633	1934	2024
Research in Astronomy and Astrophysics	1674-4527	2397-6209	2009	2024
Formerly Chinese Journal of Astronomy and Astrophysics			2001	2008
Russian Chemical Reviews	0036-021X	1468-4837	1960	2024
Russian Mathematical Surveys	0036-0279	1468-4829	1960	2024
Sbornik:Mathematics *	1064-5616	1468-4802	1995	2024
Formerly: Russian Academy of Sciences: Sbornik Mathematics	1064-5616		1993	1995
Formerly: Mathematics of the USSR – Sbornik	0025-5734		1967	1993
Semiconductor Science and Technology	0268-1242	1361-6641	1986	2024
Smart Materials and Structures	0964-1726	1361-665X	1992	2024
Superconductor Science and Technology	0953-2048	1361-6668	1988	2024
Surface Topography: Metrology and Properties		2051-672X	2013	2024
Transactions of the Optical Society (1899-1932)	1475-4878		1899	1932
Translational Materials Research		2053-1613	2014	2018

2. Expected Read Access Titles

These titles are expected to be added to the package during the Term of the License Agreement, subject to Licensor's publishing roadmap. Licensor shall confirm in writing if and when the titles will be added to the list of Expected Read Access Titles.

Titles	P-ISSN	E-ISSN	Access start year	Access end year
Engineering Research Express		2631-8695	2019	2024
Progress in Biomedical Engineering		2516-1083	2019	2024
Progress in Energy		2516-1091	2019	2024

3. Eligible Publishing Titles

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

Titles	Journal Type	E-ISSN
2D Materials	Hybrid	2053-1583
Applied Physics Express	Hybrid	1882-0786
Biofabrication	Hybrid	1758-5090
Bioinspiration & Biomimetics	Hybrid	1748-3190
Biomedical Materials	Hybrid	1748-605X
Biomedical Physics & Engineering Express	Hybrid	2057-1976
Classical and Quantum Gravity	Hybrid	1361-6382
ECS Journal of Solid State Science and Technology	Hybrid	2162-8777
Electronic Structure	Hybrid	2516-1075
Engineering Research Express	Hybrid	2631-8695
European Journal of Physics	Hybrid	1361-6404
Europhysics Letters	Hybrid	1286-4854
Flexible and Printed Electronics	Hybrid	2058-8585
Fluid Dynamics Research	Hybrid	1873-7005
Functional Composites and Structures	Hybrid	2631-6331
Inverse Problems	Hybrid	1361-6420
Japanese Journal of Applied Physics	Hybrid	1347-4065
Journal of Breath Research	Hybrid	1752-7163
Journal of Cosmology and Astroparticle Physics	Hybrid	1475-7516
Journal of Instrumentation	Hybrid	1748-0221
Journal of Micromechanics and Microengineering	Hybrid	1361-6439
Journal of Neural Engineering	Hybrid	1741-2552
Journal of Optics	Hybrid	2040-8986
Journal of Physics A: Mathematical and Theoretical	Hybrid	1751-8121
Journal of Physics B: Atomic, Molecular and Optical Physics	Hybrid	1361-6455
Journal of Physics D: Applied Physics	Hybrid	1361-6463
Journal of Physics G: Nuclear and Particle Physics	Hybrid	1361-6471
Journal of Physics: Condensed Matter	Hybrid	1361-648X

Journal of Radiological Protection	Hybrid	1361-6498
Journal of Statistical Mechanics: Theory and Experiment	Hybrid	1742-5468
Journal of the Electrochemical Society	Hybrid	1945-7111
Laser Physics	Hybrid	1555-6611
Laser Physics Letters	Hybrid	1612-202X
Measurement Science and Technology	Hybrid	1361-6501
Methods and Applications in Fluorescence	Hybrid	2050-6120
Metrologia	Hybrid	1681-7575
Modelling and Simulation in Materials Science and Engineering	Hybrid	1361-651X
Multifunctional Materials	Hybrid	2399-7532
Nano Futures	Hybrid	2399-1984
Nanotechnology	Hybrid	1361-6528
Nonlinearity	Hybrid	1361-6544
Nuclear Fusion	Hybrid	1741-4326
Physica Scripta	Hybrid	1402-4896
Physical Biology	Hybrid	1478-3975
Physics Education	Hybrid	1361-6552
Physics in Medicine & Biology	Hybrid	1361-6560
Physiological Measurement	Hybrid	1361-6579
Plasma Physics and Controlled Fusion	Hybrid	1361-6587
Plasma Research Express	Hybrid	2516-1067
Plasma Sources Science and Technology	Hybrid	1361-6595
Progress in Energy	Hybrid	2516-1083
Progress in Biomedical Engineering	Hybrid	2516-1091
Publications of the Astronomical Society of the Pacific	Hybrid	1538-3873
Quantum Science & Technology	Hybrid	2058-9565
Semiconductor Science and Technology	Hybrid	1361-6641
Smart Materials and Structures	Hybrid	1361-665X
Superconductor Science and Technology	Hybrid	1361-6668
Surface Topography: Metrology and Properties	Hybrid	2051-672X
Environmental Research Communications	Gold OA	2515-7620
Environmental Research: Infrastructure and Sustainability	Gold OA	2634-4505
Environmental Research Letters	Gold OA	1748-9326
IOP SciNotes	Gold OA	2633-1357
Journal of Physics Communications	Gold OA	2399-6528
Journal of Physics: Complexity	Gold OA	2632-072X
Journal of Physics: Energy	Gold OA	2515-7655
Journal of Physics: Materials	Gold OA	2515-7639
Journal of Physics: Photonics	Gold OA	2515-7647
Machine Learning: Science and Technology	Gold OA	2632-2153
Materials for Quantum Technology	Gold OA	2633-4356
Materials Research Express	Gold OA	2053-1591
Nano Express	Gold OA	2632-959X
Neuromorphic Computing and Engineering	Gold OA	2634-4386
New Journal of Physics	Gold OA	1367-2630
Environmental Research: Climate	Gold OA	2752-5295
Environmental Research: Health	Gold OA	2752-5309
Environmental Research: Ecology	Gold OA	2752-664X

4. 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

5. IOP Ebooks

A subset of participants (as specified in Schedule 3) have purchased IOP ebooks Release 4, Release 5, Release 6, and/or Release 2020. 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.

IOP ebooks Releases 4, 5, 6, and 2020 are per the attached spreadsheet (filename: CRKN-IOP_ebooks_Releasesto2020_TitleList_2022-01-26.xlsx)

ACCESS METHOD

Unlimited use of the Licensed Materials on the Platform.

User authentication mechanisms supported are:

IP Authentication
Shibboleth

PERPETUAL ACCESS

Perpetual access rights are granted to the Members for all Licensed Materials for the years subscribed.

Perpetual access rights for the 2021 calendar year are included for all participants at no additional cost for *Electronic Structure* and *Plasma Research Express*, subject to the license terms for licensed materials.

Signature Page Follows

SCHEDULE 1

**LICENSED MATERIALS AND ACCESS METHOD
Signature Page**

AS WITNESS the hands of the parties the day and year below first written

FOR LICENSOR: **IOP PUBLISHING LIMITED**

Signature redacted

Signature: _____ Date: February 16, 2022 | 07:21 PST

Name (in block capitals): Julian Wilson

Position / Title: Sales and Marketing Director

FOR LICENSEE: **CANADIAN RESEARCH KNOWLEDGE NETWORK**

Signature redacted

Signature: _____ Date: Feb 15, 2022

Name (in block capitals): Clare Appavoo

Position / Title: Executive Director

SCHEDULE 2 FEE

A schedule dated February 10, 2022 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 December 15 of any given year to December 14 of the succeeding 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.

- 2021-2022: 4% annual increase over 2020-2021, after banding adjustments
- 2022-2023: 2% annual increase over 2021-2022
- 2023-2024: 2% annual increase over 2022-2023

2021-2022 – Journals (License period Dec. 15, 2021 – Dec. 14, 2022):	\$ 1,777,060.10
2022-2023 – Journals (License period Dec. 15, 2022 – Dec. 14, 2023):	\$ 1,812,601.28
2023-2024 – Journals (License period Dec. 15, 2023 – Dec. 14, 2024):	\$ 1,848,853.32
2021-2024 TOTAL FEE: (Agreement Term Dec 15, 2021 – Dec 14, 2024)	\$ 5,438,514.70

PAYMENT SCHEDULE

2021-2022 – payable upon execution of this amending letter (net 60 days):	\$ 1,719,195.68
2022-2023 – payable on or before December 14, 2022:	\$ 1,812,601.28
2023-2024 – payable on or before December 14, 2023:	\$ 1,848,853.32

For reference purposes, the Fees incurred per Member are as set out on the attached spreadsheet (filename: CRKN_IOP_2021-2024_Schedule2_2022-02-10.xlsx)

OPEN ACCESS APC FEES

Eligible Corresponding Authors will not be required to pay APCs for Eligible Articles in Eligible Publishing Titles as further described in Schedule 6 – Open Access Publishing.

Signature Page Follows

SCHEDULE 2

**FEE
Signature Page**

AS WITNESS the hands of the parties the day and year below first written

FOR LICENSOR: **IOP PUBLISHING LIMITED**

Signature redacted

Signature: _____

Date: February 16, 2022 | 07:21 PST

Julian Wilson

Name (in block capitals): _____

Position / Title: Sales and Marketing Director

FOR LICENSEE: **CANADIAN RESEARCH KNOWLEDGE NETWORK**

Signature redacted

Signature: _____

Date: Feb 15, 2022

Name (in block capitals): CLARE APPAVOO

Position / Title: Executive Director

SCHEDULE 3**MEMBERS PARTICIPATING IN THIS LICENSE AGREEMENT**

A schedule dated February 10, 2022 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)	IOP ebooks Release 4 & AAS Release 1	IOP ebooks Release 5	IOP ebooks Release 6	IOP ebooks Release 2020
ATLANTIC REGION (10)					
Acadia University	X				
Dalhousie University	X				
Memorial University of Newfoundland	X	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
University of Prince Edward Island	X				
QUEBEC (8)					
Bishop's University	X				
Concordia University	X				
École Polytechnique de Montréal	X				
McGill University	X	X	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
ONTARIO (15)					
Carleton University	X	X	X		
Lakehead University	X				
McMaster University	X	X	X	X	
Queen's University	X				
Royal Military College	X				
Ryerson University	X	X			
University of Guelph	X				

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University of Ontario Institute of Technology	X	X	X		
University of Ottawa	X	X	X	X	X
University of Toronto	X	X	X	X	X
University of Waterloo	X	X	X	X	X
University of Windsor	X	X	X		
Western University	X	X			
Wilfrid Laurier University	X				
York University	X	X	X		
WESTERN REGION (13)					
Athabasca University	X				
Brandon University	X	X			
MacEwan University	X				
Simon Fraser University	X	X	X	X	
University of Alberta	X	X	X	X	X
University of British Columbia	X				
University of Calgary	X				
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Signature: _____ ate: _____

Name (in block capitals): Julian Wilson

Position / Title: Sales and Marketing Director

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Signature: Signature redacted Date: Feb 15, 2022

Name (in block capitals): CLARE APPAVOO

Position / Title: Executive Director

SCHEDULE 4

IP ADDRESSES OF THE MEMBERS

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See spreadsheet attached (filename: CRKN-IOP_2021-2024_Schedule4_2022-02-10.xlsx)

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Position / Title: Sales and Marketing Director

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Signature: _____ **Signature redacted** _____ Date: Feb 15, 2022
Name (in block capitals): Clare Appavoo
Position / Title: Executive Director

SCHEDULE 6

OPEN ACCESS PUBLISHING

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Julian Wilson

Name (in block capitals): _____

Position / Title: _____ Sales and Marketing Director

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Date: Feb 15, 2022

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- provide a refund of the Fee corresponding to the amount of downtime.

6.10 TRAINING AND SUPPORT

Licensor shall offer installation support to Licensee and each of the Members, including assisting with the implementation of any Licensor software. Licensor will provide appropriate training to Licensee and Member staff relating to the use of the Licensed Materials and any Licensor software. Licensor will offer reasonable levels of continuing support to assist Licensee and Members in use of the Licensed Materials, including providing help files and other appropriate user documentation in connection with the use of and access to the Licensed Materials. Licensor will, at a minimum, make its personnel available by email, telephone or via the Web, or in person during Licensor's regular business hours, Monday through Friday, for training and user access support.

6.11 BRANDING

Upon request, Licensor will provide to each Member the option to brand the Platform with the name of the Member.

6.12 MODIFICATION OF LICENSED MATERIALS

Licensor shall use its reasonable endeavours to give not less than sixty (60) days' written notice to Licensee of any anticipated material modifications to the Licensed Materials and Platform(s), specifying the item or items to be modified. If, in the reasonable opinion of Licensee, any such modification renders the Licensed Materials substantially less useful in a material respect to the Members or its Authorized Users, Licensee may seek to terminate this License Agreement for breach pursuant to the termination provisions in section 10 [Term, Renewal, and Termination].

6.12.1 MIGRATION TO OTHER FORMATS

Licensee understands that, from time to time, the Licensed Materials may migrate to, or be available in, other formats. If Licensor develops new delivery or download methods during the term of this License Agreement, this service shall be made available to Members and Authorized Users at no additional charge. Licensor will provide content in all available formats, including any newly-developed and available delivery formats, during the term of this License Agreement, for no additional fee. Licensor will ensure the content and metadata provided complies with the then-current recognized international standards.

6.12.2 WITHDRAWAL OF MATERIALS

Subject to clause 6.12.3 [Transfer of Ownership of Licensed Materials], Licensor reserves the right at any time to withdraw from the Licensed Materials any item or part of an item for which it no longer retains the right to publish and for which Licensor has been unable to meet the requirements of clause 5.1 [Licensor Representations], or any item or part of an item for which Licensor has reasonable grounds to suspect infringement of copyright or defamation. If the withdrawn material represents more than five per cent (5%) of the Licensed Materials then available under this License Agreement, Licensor shall make a pro rata refund of part of the Fee to Licensee, taking into account the amount of material withdrawn and the remaining unexpired portion of the subscription period as outlined in Schedule 1. If any Licensed Materials are permanently removed from the Platform, Licensor

shall make a permanent note or mark indicating that such Licensed Materials were removed and providing sufficient explanation as to the reasons for its removal.

6.12.3 TRANSFER OF OWNERSHIP OF LICENSED MATERIALS

If Licensor sells or otherwise transfers all or any part of the Licensed Materials, Licensor will take such steps as are reasonably necessary to ensure that Licensee's and the Members' rights and access to such Licensed Materials under this License Agreement, including any Perpetual Access rights, are maintained and continue uninterrupted by such sale or other transfer. Licensor will comply with the UKSG Transfer Code of Practice in connection with any sale or other transfer of the Licensed Materials that constitute journals.

6.12.4 ADDITION OF NEW MATERIALS

Licensor may offer additions to the Licensed Materials not otherwise identified in Schedule 1 during the term of this License Agreement. Any addition of materials and the fees arising from the same, not otherwise identified in Schedule 1, shall be the subject of negotiation and Licensor and Licensee must mutually agree and consent in writing to the additions and an increase (if any) in the Fee for subsequent years arising from the addition of new materials to the Licensed Materials.

6.13 COLLECTION OF USAGE DATA

Licensor shall collect Usage Data according to the most recent release of the Project COUNTER Code of Practice and specify such reporting in Schedule 5. Such Usage Data shall be compiled in a manner consistent with applicable privacy and data protection laws and as may be agreed in writing between the parties from time to time, and the anonymity of individual users and the confidentiality of their searches shall be fully protected.

6.14 DISCLOSURE AND SHARING OF USAGE DATA

Licensor shall disclose to Licensee and each Member such Usage Data relating to Licensee or Member as reasonably requested, provided that the disclosure of such data fully protects the anonymity of individual users and the confidentiality of their searches, and is not contrary to applicable privacy laws.

Licensee and Members are permitted to share Usage Data.

Licensor shall not disclose or sell to other parties non anonymized Usage Data about Licensee, Members, or Authorized Users without Licensee's and the Members' permission.

6.15 PRIVACY RIGHTS

Licensor will not, without the prior written consent of the Member and Authorized Users, or as otherwise permitted by the applicable privacy legislation – such as the Freedom of Information and Protection of Privacy Act – transfer any personal information of any Authorized Users to any third party or use it for any purpose other than as described in this License Agreement.

6.16 OPEN ACCESS OPTION

In the event that Licensor offers an open access option to authors via payment of an article publication fee ("gold open access option"), Licensor agrees to annually review the number of open access articles published in the Licensed Materials under the gold open access option. For all Licensed Materials in which such articles are published, Licensor will share with Licensee, on an annual basis, the number and citations of articles published under the gold open access option by corresponding authors at the Member listed by journal title.

6.17 CLICK-THROUGH LICENSE

In the event that Licensor uses a Click-Through License, Licensor shall provide Licensee with notice of, and an opportunity to comment on, such terms prior to their implementation or revision to ensure consistency with this License

Agreement. In the event of any conflict between the terms of such Click-Through Licenses and this License Agreement, the terms of this License Agreement shall prevail and, without limiting the foregoing, Licensor shall not enforce any provisions of the Click-Through Licenses that conflict with this License Agreement.

6.18 DIGITAL RIGHTS MANAGEMENT TECHNOLOGY

In the event that Licensor utilizes any type of Digital Rights Management Technology to control the access or the usage of the Licensed Materials, Licensor agrees to notify Licensee of any technical specifications. In no event may such Digital Rights Management Technology be used in such a way as to limit the usage rights of a Licensee or any Authorized User as specified in this License Agreement or under applicable law. Any Digital Rights Management Technology shall be applied in compliance with this License Agreement and applicable privacy and data protection laws.

6.19 DIGITAL WATERMARKING TECHNOLOGY

If Licensor utilizes any type of Digital Watermarking Technology for any element of the Licensed Materials, Licensor agrees that watermarks or other notices will not be visible to the human eye and will not degrade the quality of the presentation of the document. These watermarks or other notices shall not contain information pertaining to Authorized Users, including account numbers but may include IP addresses. Any Digital Watermarking Technology shall be applied in a manner consistent with applicable privacy and data protection laws and as may be agreed between the parties from time to time, and the anonymity of individual users and the confidentiality of their access or usage of the Licensed Materials shall be fully protected. If watermarks or other notices are used, Licensor agrees to notify Licensee of any technical specifications.

6.20 MARC RECORDS

When applicable to the Licensed Materials, Licensor shall provide full OCLC-quality batched sets of MARC records at no additional cost by the date of the execution of this License Agreement. Updates to existing records and new title records, matching the schedule of release and delivery of new publications, will be provided on a mutually agreed-upon schedule and in a format that renders them useful to Licensee and Members.

6.21 PRESERVATION OF LICENSED MATERIALS

Licensor will make available a digital archive of the Licensed Materials and associated metadata on its servers, and with at least one of the following third-party archiving services: Portico, CLOCKSS, LOCKSS, Scholars Portal, or another mutually agreed-upon archiving service, and inform Licensee on which of the archiving services the archive may be found. The archive will be maintained in perpetuity, with its format converted from time to time as appropriate if the technology used for storage or access changes. If Licensor is unable to continue to provide Perpetual Access from its servers, Licensee is entitled to access the archive from the third-party archiving service to fulfill Clauses 2.2 [Perpetual Access Rights] and 10.5.3 [Perpetual Access to Licensed Materials], subject to the terms of that third party.

6.22 PERSISTENT LINKS

Licensor will provide a method for Members to create persistent links to the Licensed Materials to ensure that Authorized Users can discover the Licensed Materials, and will assist Members in creating such links effectively. Whenever feasible, Licensor will use the OpenURL standard (ANSI/NISO Z39.88) for such links.

6.23 RIGHT TO DEPOSIT

In respect of any Licensed Material of which the author is affiliated with a Member, Licensor will allow such author to archive or deposit a post-print, peer-reviewed version of such Licensed Material as accepted for publication in institutional, or other non-commercial Repository Services or archives after the expiry of a 12 month embargo following first online publication in accordance with Licensor's then current Author Rights Policy -

<https://publishingsupport.iopscience.iop.org/current-policy-author-rights-policy-for-subscription-articles-for-which-the-copyright-form-was-submitted-on-or-after-26-april-2016/>.

7. LICENSEE'S AND MEMBER'S OBLIGATIONS

7.1 NOTICE OF TERMS AND CONDITIONS

Licensee shall inform the Members in writing of the terms and conditions of this License Agreement as outlined in sections 3 [Permitted Uses] and 4 [Prohibited Uses]. Members shall use all reasonable efforts to provide Authorized Users with appropriate written notice of the terms and conditions under which access to the Licensed Materials is granted under this License Agreement including, in particular, any limitations on access or use of the Licensed Materials as set forth in this License Agreement. In the event that Licensee receives information about a breach of any of the terms and conditions of this License Agreement by a Member then it shall promptly enter into discussions with that Member and use all reasonable efforts to convince Member to rectify the breach within thirty (30) days.

7.2 NOTICE OF INTELLECTUAL PROPERTY RIGHTS

Members shall use all reasonable efforts to inform Authorized Users in writing of the importance of respecting the intellectual property rights in the Licensed Materials and of the sanctions that each Member imposes for failing to respect such rights. Immediately upon becoming aware of any unauthorized use or other breaches of this License Agreement, Licensee and/or the Member shall inform Licensor in writing and take all reasonable and appropriate steps to ensure that such activity ceases and to prevent any recurrence.

7.3 NOTICE OF MEMBER INFORMATION

Licensee shall provide to Licensor information sufficient to enable Licensor to provide access to the Licensed Materials in accordance with its obligations under clause 6.1 [Availability of Licensed Materials] within 30 days of the date of this License Agreement. Should the Members make any significant change to such information, Licensee shall notify Licensor in writing in a timely manner and not less than 10 days before the change takes effect.

7.4 PROTECTION FROM UNAUTHORIZED USE

Members shall make all reasonable efforts to limit access to the Licensed Materials to Authorized Users only, and to protect the Licensed Materials from unauthorized use. Neither Licensee nor the Members are liable to Licensor in respect of any such unauthorized use by Authorized Users so long as such all reasonable efforts were made and the remainder of this clause 7 is complied with.

8. MUTUAL OBLIGATIONS

8.1 NOTICE OF UNAUTHORIZED USE

Upon becoming aware of any unauthorized use or other breach, Licensor, Licensee, and Member will inform the others in writing and take all reasonable and appropriate steps to both ensure that such activity ceases and to prevent any recurrence. Licensor, Licensee, and Member agree to cooperate in good faith and to provide sufficient exchange of information to prevent any further unauthorized use.

Licensor reserves the right to temporarily suspend any Member's access to the Licensed Materials for infringement of Licensor's intellectual property rights in the Licensed Materials or for a breach of the terms of this License Agreement that threatens either the performance or security of the Platform. Forthwith, after suspending such access, Licensor shall issue a notice to the Member and Licensee of the breach, specifying the activity of the Member that caused the breach. Licensor shall forthwith restore access to the Member upon receipt of written notice that such activity has ceased and that the Member has made all reasonable efforts to protect against recurrence of such activity.

8.2 LOCAL LOADING AND LOCAL/ALTERNATE HOSTING

Licensor agrees to negotiate in good faith a separate agreement with a Member or a duly authorized representative (e.g. a consortium acting on behalf of the Member) at any point in the term of this License Agreement, for local loading and alternate hosting of the Licensed Materials on the Member's server or a third-party server, as designated by the Member and approved in writing by Licensor.

9. FEE

9.1 FEE SCHEDULE

Licensee shall, in consideration for the rights granted under this License Agreement, pay the Fee in accordance with the payment schedule outlined in Schedule 2. For the avoidance of doubt, the Fee shall be exclusive of any sales, use, value added or similar taxes and Licensee shall be liable for any such taxes in addition to the Fee.

9.2 FEE ADJUSTMENTS

Fee may be amended from time to time by written agreement between Licensor and Licensee. Adjustments to the Fee may also occur as a result of clauses elsewhere in this License Agreement and shall be made at the time of annual invoicing within a term, or at renewal or termination.

9.3 INVOICES

Invoices shall be sent to Licensee no later than sixty (60) days before the payment schedule due dates as outlined in Schedule 2. In the event that the invoice is received by Licensee less than sixty (60) days before the due dates as set out in the payment schedule outlined in Schedule 2, payment to Licensor will be due sixty (60) days after receipt of the invoice.

10. TERM, RENEWAL, AND TERMINATION

10.1 AGREEMENT TERM

This License Agreement shall commence and shall terminate automatically on the dates as set out in Schedule 1 unless terminated earlier in accordance with Section 10.2 [Early Termination].

10.2 EARLY TERMINATION

10.2.1 EARLY TERMINATION FOR PAYMENT DEFAULT

Licensor may terminate this License Agreement immediately on notice to Licensee if Licensee willfully defaults in making payment of the Fee as provided in this License Agreement and fails to remedy such default within sixty (60) days of notification in writing by Licensor.

10.2.2 EARLY TERMINATION FOR BREACH

Either Licensor or Licensee may terminate this License Agreement by prior written notice to the other party if such other party commits a material or persistent breach of any term of this License Agreement and fails to remedy the breach within sixty (60) days of prior written notice by the non-breaching party.

If a Member commits a material or persistent breach of the terms of this License Agreement and, where the breach can be remedied, the Member fails to remedy the breach within sixty (60) days' notice from Licensor to the Member and Licensee, or the Member fails to commence and diligently pursue steps to remedy the breach within sixty (60) days' notice from Licensor to the Member and Licensee, or breach cannot be remedied, Licensor may terminate the license and rights granted to the Member pursuant to this License Agreement by giving notice of termination to the Member and Licensee. Upon the expiry of the notice period, Licensor may discontinue providing the Member access to the Licensed Materials for the remainder of the term of this License Agreement.

10.2.3 EARLY TERMINATION FOR LICENSOR INSOLVENCY

Licensee may terminate this License Agreement by prior written notice to Licensor if Licensor becomes insolvent, admits insolvency or a general inability to pay its debts as they become due, has appointed a receiver or administrative receiver over it or over any part of its undertaking or assets, passes a resolution for winding up other than a bona fide plan of solvent amalgamation or reconstruction, files a petition for protection under any applicable bankruptcy code, or has filed against it or becomes subject to an insolvent petition in bankruptcy or an order to that effect.

10.2.4 EARLY TERMINATION FOR FINANCIAL EXIGENCY

Licensee may terminate this License Agreement if public funding of Licensee or funding of Licensee by the Members is materially reduced and Licensee thereby becomes unable to pay future amounts payable pursuant to this License Agreement. Licensee will give Licensor prior written notice of such termination and this License Agreement shall terminate effective sixty (60) days after the giving of such notice if Licensee has failed to pay the Fee for the calendar year in which such notice was given, or if Licensee has paid the Fee for the calendar year in which such notice was given, January 1 of the following year. The parties agree that the earliest date on which Licensee will try and terminate this License Agreement under this clause shall be in year 2 of its term.

10.2.5 EARLY TERMINATION REFUND

Upon termination of this License Agreement by Licensee under Section 10.2.2 [Early Termination for Breach] or Section 10.2.3 [Early Termination for Licensor Insolvency], Licensor shall forthwith refund the proportion of the Fee that represents the paid but unexpired part of the term of this License Agreement.

10.2.6 EARLY TERMINATION BY A MEMBER

The performance of a Member of their obligations under this License Agreement shall be subject to and contingent upon the availability of funds provided, allocated, or allotted in institutional budgets for the purpose of this License Agreement for the current and future license term. Any Member may, at its option, provide prior written notice to Licensor and Licensee, by October 1 of each applicable calendar year within this License Agreement, of the non-availability of such funds and the intent to terminate their participation in this License Agreement beginning on January 1st of the forthcoming year.

If a Member executes this option, no refund of payments already received by Licensor will be owed to the Member. The determination of whether funds are available shall be made in the sole discretion of the applicable Member. The termination of participation by any Member will not constitute a default or a termination of participation of any other Members under this License Agreement and shall not be grounds for any increase in fees payable by other Members. Upon termination, a Member has the ability to execute their rights under clause 10.5.3 [Perpetual Access to Licensed Materials].

10.3 RENEWAL OF TERM

This License Agreement shall be renewable at the end of the current term if agreed in writing by both parties prior to the termination of this License Agreement.

10.4 EXTENSION OF TERM

This License Agreement may be extended for a limited period of time at the end of the current term if agreed in writing by both parties prior to the termination of this License Agreement, or due to cause as outlined in section 6.8 [Service Interruption].

10.5 TERMINATION

10.5.1 NOTIFICATION OF TERMINATION

Upon termination of this License Agreement, Licensee shall immediately notify the Members in writing.

10.5.2 TERMINATION RIGHTS

Upon termination, all rights and obligations of the parties automatically terminate except for rights and obligations in respect of the Licensed Materials for which Perpetual Access is granted in clause 2.2 [Perpetual Access Rights], for rights and obligations in respect of a refund under clause 10.2.5 [Early Termination Refund], if applicable, and for rights and obligations under such other provisions that, by their nature or their terms, survive termination.

10.5.3 PERPETUAL ACCESS TO LICENSED MATERIALS

Upon termination of this License Agreement, save where Licensee and/or the Members are in breach, Licensor will provide perpetual access to the Licensed Materials for which Perpetual Access was granted in this License Agreement. The means by which Authorized Users shall have access to such Licensed Materials shall be in a manner and form substantially equivalent to the means by which access is provided during the term of this License Agreement, with provisions for ensuring forward compatibility with new technologies.

Licensor shall:

- a.) provide continuing online access to archival copies of the Licensed Materials on Licensor's Platform by Licensee or Members;
- b.) provide to Licensee, Member, or third-party archiving service, upon request and within 90 days, one copy of the entire set of the Licensed Materials and associated metadata to be maintained as an archival copy for the purpose of delivering continuing online access to Authorized Users on payment of an agreed one time fee by Licensee or Members.

The cost of electronic delivery of the Licensed Materials and associated metadata to Licensee or Member or a third-party archiving service shall be borne by Licensor, unless otherwise agreed upon by the parties.

The archival copy from Licensor shall be provided without Digital Rights Management Technology in a mutually agreeable medium suitable to the content, but may not contain all the links and other features and functionality associated with the Licensed Materials pursuant to this License Agreement.

11. GENERAL

11.1 ENTIRE LICENSE AGREEMENT

The following documents shall comprise the entire License Agreement between both parties concerning the subject matter of this License Agreement, and, in the event of any dispute concerning construction thereof, shall have the following order of precedence:

- a.) This License Agreement and all schedules and other documents attached and incorporated by reference.

11.2 ALTERATIONS

Alterations to this License Agreement and to the schedules to this License Agreement are only valid if they are recorded in writing and signed by both parties.

11.3 ASSIGNMENT AND TRANSFER

This License Agreement may not be assigned or transferred by either party to any other person or organization without the prior written consent of the other party, nor may either party sub-contract any of its obligations, except as provided in this License Agreement in respect of the management and operation of the Platform, without the prior written consent of the other party, which consent shall not unreasonably be withheld, conditioned or delayed.

11.4 EXECUTION

This License Agreement and any amendment thereto may be executed in counterparts, and signatures exchanged by mail or electronic means are effective to the same extent as original signatures.

11.5 FORCE MAJEURE

Neither a party's nor a Member's delay or failure to perform any provision of this License Agreement as a direct result of circumstances beyond its reasonable control (including, without limitation, war, strikes, floods, governmental restrictions, power, telecommunications or Internet failures, "denial of service" or similar attacks, or damage to or destruction of any network facilities) shall be deemed to be, or to give rise to, a breach of this License Agreement.

11.6 SEVERABILITY

The invalidity or un-enforceability of any provision of this License Agreement shall not affect the continuation or enforceability of the remainder of this License Agreement.

11.7 WAIVER OF CONTRACTUAL RIGHT

Either party's waiver, or failure to require performance by the other, of any provision of this License Agreement will not affect its full right to require such performance at any subsequent time, or be taken or held to be a waiver of the provision itself.

11.8 NOTICES

Any notices to be served on either of the parties or on a Member by the other shall be sent by registered mail, electronic mail, or courier to the address of the addressee as set out in this License Agreement or to such other address as notified by either party to the other in writing as its address for service of notices. Any such notice sent by registered mail shall be deemed to have been given 14 days after the date of posting the mail. Any such notice sent by courier or electronic mail shall be deemed to have been given on the date of receipt.

11.9 DISPUTE RESOLUTION

If the parties disagree over an interpretation of this License Agreement or whether a party or a Member is in breach of any part of this License Agreement, the parties and any such Member shall, in good faith, enter into negotiations to resolve the disagreement and discuss the feasibility of resolving the disagreement by mediation or other means short of litigation. The parties shall cooperate in good faith in pursuing mediation or such other means.

11.10 VENUE

The Licensor agrees that any action or proceeding instituted by it relating to this License Agreement or its dealings with the Licensee or a Member pursuant to this License Agreement shall be brought in a court of competent jurisdiction in the Province of Ontario, Canada, and for that purpose the Licensor now irrevocably and unconditionally attorns and submits to the jurisdiction of such court. The Licensor further agrees that Licensee may, at its sole discretion, bring any action or proceeding relating to this License Agreement in a court of competent jurisdiction in the Province of Ontario, Canada or in any jurisdiction in which the Licensor is incorporated, registered or resident. In any such event, the Licensor agrees that it will irrevocably waive any right to, and will not, oppose any such action or proceeding on any jurisdictional basis, including forum non conveniens.

AS WITNESS the hands of the parties the day and year below first written,

FOR LICENSOR: IOP PUBLISHING LIMITED

Signature: _____ Date: _____

Name (in block capitals): _____

Position / Title: _____

FOR LICENSEE: CANADIAN RESEARCH KNOWLEDGE NETWORK

Signature: _____ Date: March 14, 2019

Name (in block capitals): CLARE APPAVOO

Position / Title: Executive Director

SCHEDULE 1

LICENSED MATERIALS AND ACCESS METHOD

A schedule dated March 7, 2019 to the License Agreement dated March 7, 2019 between **IOP PUBLISHING LIMITED** and **CANADIAN RESEARCH KNOWLEDGE NETWORK**

THE LICENSED MATERIALS

License Agreement Start Date: December 15, 2018

License Agreement End Date: December 14, 2021

IOP Journals:

Titles	E-ISSN	P-ISSN	Start year	End Year
2D Materials	2053-1583	Electronic only	2014	2021
Advances in Natural Sciences: Nanoscience and Nanotechnology	2043-6262	Electronic only	2019	2021
Applied Physics Express	1882-0786	1882-0778	2008	2021
Astronomical Journal	1538-3881	0004-6256	1998	2021
Astrophysical Journal	1538-4357	0004-637X	1996	2021
Astrophysical Journal Letters	2041-8213	2041-8205	2010	2021
Astrophysical Journal Letters	0004-637X	1538-4357	1995	2009
Astrophysical Journal Supplement Series	1538-4365	0067-0049	1996	2021
Biofabrication	1758-5090	1758-5082	2009	2021
Bioinspiration and Biomimetics	1748-3190	1748-3182	2006	2021
Biomedical Materials	1748-605X	1748-6041	2006	2021
Biomedical Physics & Engineering Express	2057-1976	Electronic only	2015	2021
Chinese Physics B	2058-3834	1674-1056	2008	2021
Formerly: Chinese Physics	1741-4199	1009-1963	2000	2007
Formerly: Acta Physica Sinica (Overseas Edition)	-	1004-423X	1992	1999
Chinese Physics C	2058-6132	1674-1137	2008	2021
Chinese Physics Letters	1741-3540	0256-307X	1984	2021
Classical and Quantum Gravity	1361-6382	0264-9381	1984	2021
Communications in Theoretical Physics	1572-9494	0253-6102	1982	2021
Distributed Systems Engineering	1361-6390	0967-1846	1993/1994	1999
EPL	1286-4854	0295-5075	1986	2021

European Journal of Physics	1361-6404	0143-0807	1980	2021
Flexible and Printed Electronics	2058-8585	Electronic only	2016	2021
Fluid Dynamics Research	1873-7005	0169-5983	1986	2021
Inverse Problems	1361-6420	0266-5611	1985	2021
Izvestiya: Mathematics *	1468-4810	1064-5632	1995	2021
Formerly: Russian Academy of Sciences: Izvestiya Mathematics	-	1064-5632	1993	1995
Formerly: Mathematics of the USSR – Izvestiya	-	0025-5726	1967	1992
Japanese Journal of Applied Physics	1347-4065	0021-4922	1962	2021
Journal of Breath Research	1752-7163	1752-7155	2007	2021
Journal of Cosmology and Astroparticle Physics	1475-7516	Electronic only	2003	2021
Journal of High Energy Physics	1029-8479	Electronic only	1997	2009
Journal of Instrumentation	1748-0221	Electronic only	2006	2021
Journal of Micromechanics and Microengineering	1361-6439	0960-1317	1991	2021
Journal of Neural Engineering	1741-2552	1741-2560	2004	2021
Journal of Optics	2040-8986	2040-8978	2010	2021
Formerly: Journal of Optics A: Pure and Applied Optics (from 1999)	1741-3567	1464-4258	1999	2009
(Formed by merger of Journal of Optics (1977-1998) and	-	0150-536X	1977	1998
Pure and Applied Optics: Journal of the European Optical Society Part A (1992-1998))	1361-6617	0963-9659	1992	1998
Formerly: Nouvelle Revue d'Optique (1973- 1976)	-	0335-7368	1973	1976
Formerly also Nouvelle Revue d'Optique Appliquée (1970-1972)	-	0029-4780	1970	1972
Journal of Physics A: Mathematical and Theoretical (from 2007)	1751-8121	1751-8113	2007	2021
Formerly: Journal of Physics A: Mathematical and General (1975-2006)	1361-6447	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 (from 1988)	1361-6455	0953-4075	1988	2021
Formerly: Journal of Physics B: Atomic and Molecular Physics (1970-1987)	-	0022-3700	1968	1987
In 2006 this journal merged with Journal of Optics B: Quantum & Semiclassical Optics(1999-2005)	1741-3575	1464-4266	1999	2005
Formerly Quantum and Semiclassical Optics: Journal of the European Optical Society Part B (1995-1998)	1361-6625	1355-5111	1995	1998
Formerly Quantum Optics: Journal of the European Optical Society Part B (1989-1994)	-	0954-8998	1989	1994
Journal of Physics: Condensed Matter (from 1989) Formed by merger of:	1361-648X	0953-8984	1989	2021
Journal of Physics C: Solid State Physics (1970- 1988)	-	0022-3719	1968	1988
Journal of Physics F: Metal Physics (1971- 1988)	-	0305-4608	1971	1988
Journal of Physics D: Applied Physics	1361-6463	0022-3727	1968	2021
Formerly British Journal of Applied Physics (1950 – 1967)	-	0508-3443	1950	1967
Journal of Physics G: Nuclear and Particle Physics	1361-6471	0954-3899	1989	2021
Formerly: Journal of Physics G: Nuclear Physics (1975-1988)	-	0305-4616	1975	1988
Journal of Radiological Protection	1361-6498	0952-4746	1988	2021
Formerly : Journal of the Society for Radiological Protection (1981 - 1987)	-	0260-2814	1981	1987

Journal of Semiconductors	2058-6140	1674-4926	2009	2021
Journal of Statistical Mechanics: Theory and Experiment	1742-5468	Electronic only	2004	2021
Laser Physics	1555-6611	1054-660X	2013	2021
Laser Physics Letters	1612-202X	1612-2011	2004	2021
Materials Research Express	2053-1591	Electronic only	2014	2021
Measurement Science and Technology	1361-6501	0957-0233	1990	2021
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	Electronic only	2013	2021
Metrologia	1681-7575	0026-1394	1965	2021
Modelling and Simulation in Materials Science and Engineering	1361-651X	0965-0393	1992	2021
Multifunctional Materials	2399-7532	Electronic only	2018	2021
Nano Futures	2399-1984	Electronic only	2018	2021
Nanotechnology	1361-6528	0957-4484	1990	2021
Nonlinearity	1361-6544	0951-7715	1988	2021
Nuclear Fusion	1741-4326	0029-5515	1960	2021
Physica Scripta	1402-4896	0031-8949	1970	2021
Physical Biology	1478-3975	1478-3967	2004	2021
Physics Education	1361-6552	0031-9120	1966	2021
Physics in Medicine & Biology	1361-6560	0031-9155	1956	2021
Physics in Technology	-	0305-4624	1973	1988
Formerly: Review of Physics in Technology (1970 – 1972)	-	0034-6683	1970	1972
Physics-USpekhi	1468-4780	1063-7869	1993	2021

Formerly: Soviet Physics Uspekhi (1958 – 1992)	-	0038-5670	1958	1992
Physics Bulletin		0031-9112	1950	1988
Physics World	2058-7058	0953-8585	1988	2021
Physiological Measurement	1361-6579	0967-3334	1993	2021
Formerly Clinical Physics and Physiological Measurement (1980-1992)	-	0143-0815	1980	1992
Plasma Physics and Controlled Fusion	1361-6587	0741-3335	1984	2021
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	1959/1960	1966
Plasma Science and Technology	2058-6272	1009-0630	1999	2021
Plasma Sources Science and Technology	1361-6595	Electronic Only	1992	2021
Proceedings of the Physical Society (1958-1967)	-	0370-1328	1958	1967
Proceedings of the Physical Society Section A (1949-1957)	-	0370-1298	1949	1957
Proceedings of the Physical Society Section B (1949-1957)	-	0370-1301	1949	1957
Proceedings of the Physical Society (1926-1948)	-	0959-5309	1926	1948
Proceedings of the Physical Society of London (1874-1925)	-	1478-7814	1874	1925
Publications of the Astronomical Society of the Pacific	1538-3873	0004-6280	1889	2021
Quantum Electronics	1468-4799	1063-7818	1993	2021
Formerly: Soviet Journal of Quantum Electronics	-	0049-1748	1971	1992
Quantum Science and Technology	2058-9565	Electronic Only	2016	2021
Reports on Progress in Physics	1361-6633	0034-4885	1934	2021
Research in Astronomy and Astrophysics	2397-6209	1674-4527	2009	2021
Formerly Chinese Journal of Astronomy and Astrophysics	-	1009-9271	2001	2008
Russian Chemical Reviews	1468-4837	0036-021X	1960	2021

Russian Mathematical Surveys	1468-4829	0036-0279	1960	2021
Sbornik:Mathematics *	1468-4802	1064-5616	1995	2021
Formerly: Russian Academy of Sciences: Sbornik Mathematics	-	1064-5616	1993	1995
Formerly: Mathematics of the USSR – Sbornik	-	0025-5734	1967	1993
Semiconductor Science and Technology	1361-6641	0268-1242	1986	2021
Smart Materials and Structures	1361-665X	0964-1726	1992	2021
Superconductor Science and Technology	1361-6668	0953-2048	1988	2021
Surface Topography: Metrology and Properties	2051-672X	Electronic only	2013	2021
Transactions of the Optical Society (1899-1932)	-	1475-4878	1899	1932
Translational Materials Research	2053-1613	Electronic only	2014	2018

*** - Volumes re-numbered in 1995 – no gap in volume**

IOP E-Books:

A subset of participants (as specified in Schedule 3) have purchased IOP E-Books Release 4 and/or IOP E-Books Release 5 e-books. These e-books are a one-time purchase with perpetual access rights with no ongoing hosting fees. The e-books are free from Digital Rights Management (DRM) restrictions, can be locally loaded (including on Scholars Portal), and there are no limits on concurrent users.

IOP E-Books Release 4 & 5 are per the attached spreadsheet (filename: CRKN-IOP_E-Books_Release_4_and_5_Title_List_2019-03-07.xlsx)

ACCESS METHOD

Unlimited use of the Licensed Materials on the Platform.

User authentication mechanisms supported are:

IP Authentication
Shibboleth

AS WITNESS the hands of the parties the day and year below first written

FOR LICENSOR: **IOP PUBLISHING LIMITED**

Signature: _____ Date: _____

Name (in block capitals): _____

Position / Title: _____

FOR LICENSEE: **CANADIAN RESEARCH KNOWLEDGE NETWORK**

Signature: _____ Date: March 14, 2019

Name (in block capitals): CLARE APPAVOO

Position / Title: Executive Director

SCHEDULE 2

FEE

A schedule dated March 7, 2019 to the License Agreement dated March 7, 2019 between **IOP PUBLISHING LIMITED** and **CANADIAN RESEARCH KNOWLEDGE NETWORK**

All fees in US dollars.

TOTAL FEE

2018-19 – Journals (License period Dec. 15, 2018 – Dec. 14, 2019):	\$1,591,598.02
2018-19 – E-Books (one-time purchase Dec 15, 2018) 1 st Installment	\$122,210.85
2018-19 – E-Books (one-time purchase Dec 15, 2018) 2 nd Installment	\$5,107.05
2018-19 – Total:	\$1,718,915.92
2019-20 – Journals (License period Dec. 15, 2019 – Dec. 14, 2020):	\$1,623,430.05
2020-21 – Journals (License period Dec. 15, 2020 – Dec. 14, 2021):	\$1,655,898.73
2018-2021 TOTAL: (License period Dec 15 2018 – Dec 14 2021)	\$4,998,244.70

PAYMENT SCHEDULE

Journals License period December 15, 2018 – December 14, 2019 and E-books 1 st installment (\$122,210,85) Payable upon execution of this License Agreement (net 60 days):	\$1,713,808.87
Journals License period December 15, 2019 – December 14, 2020 and E-books 2 nd installment (\$5,107.05) Payable on or before December 15, 2019:	\$1,628,537.10
Journals License period December 15, 2020 – December 14, 2021 Payable on or before December 15, 2020:	\$1,655,898.73

For reference purposes, the Fees incurred per Member are as set out on the attached spreadsheet (filename: CRKN-IOP_2018-2021_Schedule 2_2019-03-07.xlsx).

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Signature: _____ Date: _____

Name (in block capitals): _____

Position / Title: _____

FOR LICENSEE: CANADIAN RESEARCH KNOWLEDGE NETWORK

Signature: _____ Date: March 14, 2019

Name (in block capitals): CLARE APPAVOO

Position / Title: Executive Director

SCHEDULE 3

MEMBERS PARTICIPATING IN THIS LICENSE AGREEMENT

A schedule dated March 7, 2019 to the License Agreement dated March 7, 2019 between **IOP PUBLISHING LIMITED** and **CANADIAN RESEARCH KNOWLEDGE NETWORK**

	JOURNALS	E-BOOKS RELEASE 4	E-BOOKS RELEASE 5
Atlantic Region (10)			
Acadia University	X		
Dalhousie University	X		
Memorial University of Newfoundland	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		
University of Prince Edward Island	X		
QUÉBEC (7)			
Bishop's University	X		
Concordia University	X		
École Polytechnique de Montréal	X		
McGill University	X		X
Université de Sherbrooke	X		
Université du Québec:			
École de technologie supérieure	X		
Institut national de la recherche scientifique	X		
ONTARIO (15)			
Carleton University	X		X
Lakehead University	X		
Laurentian University	X		
McMaster University	X		
Queen's University	X		
Ryerson University	X		
University of Guelph	X		
University of Ontario Institute of Technology	X		X
University of Ottawa	X		
University of Toronto	X		X
University of Waterloo	X		X
University of Windsor	X		X
Western University	X	X	
Wilfrid Laurier University	X		
York University	X	X	X

WESTERN REGION (13)			
Athabasca University	X		
Brandon University	X		
MacEwan University	X		
Simon Fraser University	X		X
University of Alberta	X		X
University of British Columbia	X		
University of Calgary	X		
University of Lethbridge	X		
University of Manitoba	X		
University of Regina	X		
University of Saskatchewan	X		X
University of Victoria	X		
University of Winnipeg	X		

AS WITNESS the hands of the parties the day and year below first written

FOR LICENSOR: IOP PUBLISHING LIMITED

Signature: _____ Date: _____

Name (in block capitals): _____

Position / Title: _____

FOR LICENSEE: CANADIAN RESEARCH KNOWLEDGE NETWORK

Signature: _____ Date: March 14, 2019

Name (in block capitals): CLARE APPAVOO

Position / Title: Executive Director

SCHEDULE 4

IP ADDRESSES OF THE MEMBERS

A schedule dated March 7, 2019 to the License Agreement dated March 7, 2019 between **IOP PUBLISHING LIMITED** and **CANADIAN RESEARCH KNOWLEDGE NETWORK**

See spreadsheet attached (filename: CRKN-IOP_2018-2021_Schedule4_2019-03-07.xlsx)

AS WITNESS the hands of the parties the day and year below first written

FOR LICENSOR: **IOP PUBLISHING LIMITED**

Signature: _____ Date: _____

Name (in block capitals): _____

Position / Title: _____

FOR LICENSEE: **CANADIAN RESEARCH KNOWLEDGE NETWORK**

Signature: _____ Date: March 14, 2019

Name (in block capitals): CLARE APPAVOO

Position / Title: Executive Director

SCHEDULE 5

USAGE DATA AND REPORTING REQUIREMENTS

A schedule dated March 7, 2019 to the License Agreement dated March 7, 2019 between **IOP PUBLISHING LIMITED** and **CANADIAN RESEARCH KNOWLEDGE NETWORK**

Usage reporting frequency: Monthly, or as requested
Currency of data: Within 1 week of the report availability date
Distribution of usage data: Online
Level of reporting: Institutional and aggregated to consortium level
Exportable to applications: Excel
Customized: User-generated report capability

AS WITNESS the hands of the parties the day and year below first written

FOR LICENSOR: IOP PUBLISHING LIMITED

Signature: _____ Date: _____

Name (in block capitals): _____

Position / Title: _____

FOR LICENSEE: CANADIAN RESEARCH KNOWLEDGE NETWORK

Signature: _____ Date: March 14, 2019

Name (in block capitals): CLARE APPAVOO

Position / Title: Executive Director

SCHEDULE 6

AUTHORIZED USERS

A schedule dated March 7, 2019 to the Agreement dated March 7, 2019 between **IOP PUBLISHING LIMITED** and **CANADIAN RESEARCH KNOWLEDGE NETWORK**.

This Agreement covers Authorized Users as specified in Section 1 – DEFINITIONS of the Agreement, for the Members participating in the Agreement as set out in Schedule 3 of the Agreement.

The parties agree that for the first year of the term of this Agreement, alumni and retired faculty and staff of the Members of the Consortium shall be entitled to access the Licensed Materials via the Secure Network. If, at the end of that year, the Publisher, in its discretion, considers that the overall use of the Licensed Materials is excessive then it shall be entitled to notify the Consortium and the Members that alumni and retired faculty and/or staff shall no longer be included.

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FOR LICENSOR: **IOP PUBLISHING LIMITED**

Signature: _____ Date: _____

Name (in block capitals): _____

Position / Title: _____

FOR LICENSEE: **CANADIAN RESEARCH KNOWLEDGE NETWORK**

Signature: _____ Date: March 14, 2019

Name (in block capitals): CLARE APPAVOO

Position / Title: Executive Director