Wolfram H P Pernice

List of Publications by Citations

165 papers	7,440 citations	44 h-index	83 g-index
216 ext. papers	10,119 ext. citations	8 avg, IF	6.51 L-index

#	Paper	IF	Citations
165	Integrated all-photonic non-volatile multi-level memory. *Nature Photonics*, **2015**, 9, 725-732	33.9	518
164	All-optical spiking neurosynaptic networks with self-learning capabilities. *Nature*, **2019**, 569, 208-214	50.4	392
163	Harnessing optical forces in integrated photonic circuits. *Nature*, **2008**, 456, 480-4	50.4	369
162	High-speed and high-efficiency travelling wave single-photon detectors embedded in nanophotonic circuits. *Nature Communications*, **2012**, 3, 1325	17.4	290
161	On-chip photonic synapse. *Science Advances*, **2017**, 3, e1700160	14.3	226
160	Parallel convolutional processing using an integrated photonic tensor core. *Nature*, **2021**, 589, 52-58	50.4	177
159	Tunable bipolar optical interactions between guided lightwaves. *Nature Photonics*, **2009**, 3, 464-468	33.9	172
158	Dynamic manipulation of nanomechanical resonators in the high-amplitude regime and non-volatile mechanical memory operation. *Nature Nanotechnology*, **2011**, 6, 726-32	28.7	169
157	Photonics for artificial intelligence and neuromorphic computing. *Nature Photonics*, **2021**, 15, 102-114	33.9	166
156	Hybrid integrated quantum photonic circuits. *Nature Photonics*, **2020**, 14,	33.9	158
155	Active silicon integrated nanophotonics: ferroelectric BaTiO□devices. *Nano Letters*, **2014**, 14, 1419-25	11.5	156
154	Low-loss, silicon integrated, aluminum nitride photonic circuits and their use for electro-optic signal processing. *Nano Letters*, **2012**, 12, 3562-8	11.5	154
153	Aluminum nitride as a new material for chip-scale optomechanics and nonlinear optics. *New Journal of Physics*, **2012**, 14, 095014	2.9	152
152	Fully integrated quantum photonic circuit with an electrically driven light source. *Nature Photonics*, **2016**, 10, 727-732	33.9	148
151	Integrated GaN photonic circuits on silicon (100) for second harmonic generation. *Optics Express*, **2011**, 19, 10462-70	3.3	144
150	Reactive cavity optical force on microdisk-coupled nanomechanical beam waveguides. *Physical Review Letters*, **2009**, 103, 223901	7.4	135
149	Carbon nanotubes as emerging quantum-light sources. *Nature Materials*, **2018**, 17, 663-670	27	134

148	On-chip photonic memory elements employing phase-change materials. *Advanced Materials*, **2014**, 26, 1372-7	24	127
147	In-memory computing on a photonic platform. *Science Advances*, **2019**, 5, eaau5759	14.3	120
146	Calculating with light using a chip-scale all-optical abacus. *Nature Communications*, **2017**, 8, 1256	17.4	108
145	Hybrid 2D□3D optical devices for integrated optics by direct laser writing. *Light: Science and Applications*, **2014**, 3, e175-e175	16.7	98
144	Broadband all-photonic transduction of nanocantilevers. *Nature Nanotechnology*, **2009**, 4, 377-82	28.7	97
143	Waveguide integrated low noise NbTiN nanowire single-photon detectors with milli-Hz dark count rate. *Scientific Reports*, **2013**, 3, 1893	4.9	96
142	Cavity-enhanced light emission from electrically driven carbon nanotubes. *Nature Photonics*, **2016**, 10, 420-427	33.9	96
141	Photonic non-volatile memories using phase change materials. *Applied Physics Letters*, **2012**, 101, 171101	3.4	93
140	Nonvolatile All-Optical 1 □2 Switch for Chipscale Photonic Networks. *Advanced Optical Materials*, **2017**, 5, 1600346	8.1	91
139	Fast and reliable storage using a 5 bit, nonvolatile photonic memory cell. *Optica*, **2019**, 6, 1	8.6	89
138	Finite-Difference Time-Domain Methods and Material Models for the Simulation of Metallic and Plasmonic Structures. *Journal of Computational and Theoretical Nanoscience*, **2010**, 7, 1-14	0.3	88
137	Second harmonic generation in phase matched aluminum nitride waveguides and micro-ring resonators. *Applied Physics Letters*, **2012**, 100, 223501	3.4	85
136	Device-Level Photonic Memories and Logic Applications Using Phase-Change Materials. *Advanced Materials*, **2018**, 30, e1802435	24	69
135	Waveguide-integrated superconducting nanowire single-photon detectors. *Nanophotonics*, **2018**, 7, 1725-1758	6.3	68
134	Waveguide integrated superconducting single-photon detectors with high internal quantum efficiency at telecom wavelengths. *Scientific Reports*, **2015**, 5, 10941	4.9	66
133	Controlled switching of phase-change materials by evanescent-field coupling in integrated photonics [Invited]. *Optical Materials Express*, **2018**, 8, 2455	2.6	65
132	NbTiN superconducting nanowire detectors for visible and telecom wavelengths single photon counting on Si3N4 photonic circuits. *Applied Physics Letters*, **2013**, 102, 051101	3.4	63
131	The rise of intelligent matter. *Nature*, **2021**, 594, 345-355	50.4	63

130	Diamond-integrated optomechanical circuits. *Nature Communications*, **2013**, 4, 1690	17.4	61
129	Plasmonic nanogap enhanced phase-change devices with dual electrical-optical functionality. *Science Advances*, **2019**, 5, eaaw2687	14.3	61
128	High-Q aluminum nitride photonic crystal nanobeam cavities. *Applied Physics Letters*, **2012**, 100, 091105	3.4	58
127	Thermo-optical Effect in Phase-Change Nanophotonics. *ACS Photonics*, **2016**, 3, 828-835	6.3	56
126	Superconducting single-photon detectors integrated with diamond nanophotonic circuits. *Light: Science and Applications*, **2015**, 4, e338-e338	16.7	55
125	On-Chip Waveguide Coupling of a Layered Semiconductor Single-Photon Source. *Nano Letters*, **2017**, 17, 5446-5451	11.5	52
124	Theoretical investigation of the transverse optical force between a silicon nanowire waveguide and a substrate. *Optics Express*, **2009**, 17, 1806-16	3.3	50
123	Waveguide-integrated light-emitting carbon nanotubes. *Advanced Materials*, **2014**, 26, 3465-72	24	49
122	Cavity-Enhanced and Ultrafast Superconducting Single-Photon Detectors. *Nano Letters*, **2016**, 16, 7085-7092	11.5	48
121	Atomic vapor spectroscopy in integrated photonic structures. *Applied Physics Letters*, **2015**, 107, 041101	3.4	42
120	Diamond as a material for monolithically integrated optical and optomechanical devices. *Physica Status Solidi (A) Applications and Materials Science*, **2015**, 212, 2385-2399	1.6	41
119	Superconducting nanowire single-photon detector implemented in a 2D photonic crystal cavity. *Optica*, **2018**, 5, 658	8.6	40
118	High Q optomechanical resonators in silicon nitride nanophotonic circuits. *Applied Physics Letters*, **2010**, 97, 073112	3.4	40
117	Frequency and phase noise of ultrahigh Q silicon nitride nanomechanical resonators. *Physical Review B*, **2012**, 85,	3.3	40
116	Tunable optical coupler controlled by optical gradient forces. *Optics Express*, **2011**, 19, 15098-108	3.3	39
115	Time-domain measurement of optical transport in silicon micro-ring resonators. *Optics Express*, **2010**, 18, 18438-52	3.3	39
114	High Q micro-ring resonators fabricated from polycrystalline aluminum nitride films for near infrared and visible photonics. *Optics Express*, **2012**, 20, 12261-9	3.3	38
113	Ultrahigh-frequency nano-optomechanical resonators in slot waveguide ring cavities. *Applied Physics Letters*, **2010**, 97, 183110	3.4	38

112	Mixed-Mode Operation of Hybrid Phase-Change Nanophotonic Circuits. *Nano Letters*, **2017**, 17, 150-155	11.5	37
111	Photostable Molecules on Chip: Integrated Sources of Nonclassical Light. *ACS Photonics*, **2018**, 5, 126-132	7.3	37
110	High-quality Si3N4 circuits as a platform for graphene-based nanophotonic devices. *Optics Express*, **2013**, 21, 31678-89	3.3	36
109	Aluminum nitride nanophotonic circuits operating at ultraviolet wavelengths. *Applied Physics Letters*, **2014**, 104, 091108	3.4	35
108	Scalable Fabrication of Integrated Nanophotonic Circuits on Arrays of Thin Single Crystal Diamond Membrane Windows. *Nano Letters*, **2016**, 16, 3341-7	11.5	35
107	Low-loss fiber-to-chip couplers with ultrawide optical bandwidth. *APL Photonics*, **2019**, 4, 010801	5.2	33
106	GHz optomechanical resonators with high mechanical Q factor in air. *Optics Express*, **2011**, 19, 22316-21	3.3	33
105	Diamond as a Platform for Integrated Quantum Photonics. *Advanced Quantum Technologies*, **2018**, 1, 1800061	4.3	33
104	Beaming light from a quantum emitter with a planar optical antenna. *Light: Science and Applications* , **2017**, 6, e16245	16.7	31
103	Waferscale nanophotonic circuits made from diamond-on-insulator substrates. *Optics Express*, **2013** , 21, 11031-6	3.3	29
102	Waveguide-integrated single- and multi-photon detection at telecom wavelengths using superconducting nanowires. *Applied Physics Letters*, **2015**, 106, 151101	3.4	28
101	Plasmonically-enhanced all-optical integrated phase-change memory. *Optics Express*, **2019**, 27, 24724-24737	3.3	26
100	Spectrally multiplexed single-photon detection with hybrid superconducting nanophotonic circuits. *Optica*, **2017**, 4, 557	8.6	25
99	Backaction limits on self-sustained optomechanical oscillations. *Physical Review A*, **2012**, 86,	2.6	25
98	Integrated 256 Cell Photonic Phase-Change Memory With 512-Bit Capacity. *IEEE Journal of Selected Topics in Quantum Electronics*, **2020**, 26, 1-7	3.8	25
97	Tunable Volatility of Ge2Sb2Te5 in Integrated Photonics. *Advanced Functional Materials*, **2019**, 29, 1807571	17.4	24
96	Optical time domain reflectometry with low noise waveguide-coupled superconducting nanowire single-photon detectors. *Applied Physics Letters*, **2013**, 102, 191104	3.4	24
95	2022 roadmap on neuromorphic computing and engineering. *Neuromorphic Computing and Engineering*,		24

94	Experimental investigation of silicon and silicon nitride platforms for phase-change photonic in-memory computing. *Optica*, **2020**, 7, 218	8.6	23
93	A mechanical Kerr effect in deformable photonic media. *Applied Physics Letters*, **2009**, 95, 123507	3.4	22
92	An FDTD method for the simulation of dispersive metallic structures. *Optical and Quantum Electronics*, **2007**, 38, 843-856	2.4	22
91	Broadband out-of-plane coupling at visible wavelengths. *Optics Letters*, **2019**, 44, 5089-5092	3	22
90	Cascaded Mach Zehnder interferometer tunable filters. *Journal of Optics (United Kingdom)*, **2016**, 18, 064011	1.7	22
89	Absorption engineering of NbN nanowires deposited on silicon nitride nanophotonic circuits. *Optics Express*, **2013**, 21, 22683-92	3.3	21
88	Analysis of short range forces in opto-mechanical devices with a nanogap. *Optics Express*, **2010**, 18, 12615-21	3.3	21
87	Efficient Coupling of an Ensemble of Nitrogen Vacancy Center to the Mode of a High-Q, SiN Photonic Crystal Cavity. *ACS Nano*, **2019**, 13, 6891-6898	16.7	20
86	Design of a Silicon Integrated Electro-Optic Modulator Using Ferroelectric BaTiO3 Films. *IEEE Photonics Technology Letters*, **2014**, 26, 1344-1347	2.2	20
85	Grating-assisted coupling to nanophotonic circuits in microcrystalline diamond thin films. *Beilstein Journal of Nanotechnology*, **2013**, 4, 300-5	3	20
84	Optomechanical coupling in photonic crystal supported nanomechanical waveguides. *Optics Express* , **2009**, 17, 12424-32	3.3	20
83	Modeling of the optical force between propagating lightwaves in parallel 3D waveguides. *Optics Express*, **2009**, 17, 16032-7	3.3	20
82	Coupling thermal atomic vapor to an integrated ring resonator. *New Journal of Physics*, **2016**, 18, 103031	2.9	20
81	Diamond Nanophotonic Circuits Functionalized by Dip-pen Nanolithography. *Advanced Optical Materials*, **2015**, 3, 328-335	8.1	19
80	Waveguide-Integrated Broadband Spectrometer Based on Tailored Disorder. *Advanced Optical Materials*, **2020**, 8, 1901602	8.1	19
79	Reconfigurable Nanophotonic Cavities with Nonvolatile Response. *ACS Photonics*, **2018**, 5, 4644-4649	6.3	19
78	Coupling Thermal Atomic Vapor to Slot Waveguides. *Physical Review X*, **2018**, 8,	9.1	18
77	Integrated phase-change photonic devices and systems. *MRS Bulletin*, **2019**, 44, 721-727	3.2	17

76	Broadband Spectrometer with Single-Photon Sensitivity Exploiting Tailored Disorder. *Nano Letters*, **2020**, 20, 2625-2631	11.5	17
75	Diamond electro-optomechanical resonators integrated in nanophotonic circuits. *Applied Physics Letters*, **2014**, 105, 251102	3.4	17
74	High performance nanophotonic circuits based on partially buried horizontal slot waveguides. *Optics Express*, **2010**, 18, 20690-8	3.3	17
73	Single organic molecules for photonic quantum technologies. *Nature Materials*, **2021**, 20, 1615-1628	27	17
72	A General Framework for the Finite-Difference Time-Domain Simulation of Real Metals. *IEEE Transactions on Antennas and Propagation*, **2007**, 55, 916-923	4.9	16
71	Carrier and thermal dynamics of silicon photonic resonators at cryogenic temperatures. *Optics Express*, **2011**, 19, 3290-6	3.3	15
70	Hot-spot relaxation time current dependence in niobium nitride waveguide-integrated superconducting nanowire single-photon detectors. *Optics Express*, **2017**, 25, 8739-8750	3.3	14
69	Femtogram dispersive L3-nanobeam optomechanical cavities: design and experimental comparison. *Optics Express*, **2012**, 20, 26486-98	3.3	14
68	High Efficiency On-Chip Single-Photon Detection for Diamond Nanophotonic Circuits. *Journal of Lightwave Technology*, **2016**, 34, 249-255	4	13
67	Broadband directional coupling in aluminum nitride nanophotonic circuits. *Optics Express*, **2013**, 21, 7304-15	3.3	13
66	A Finite-Difference Time-Domain Method for the Simulation of Gain Materials With Carrier Diffusion in Photonic Crystals. *Journal of Lightwave Technology*, **2007**, 25, 2306-2314	4	13
65	Matrix of Integrated Superconducting Single-Photon Detectors With High Timing Resolution. *IEEE Transactions on Applied Superconductivity*, **2013**, 23, 2201007-2201007	1.8	12
64	Design study of random spectrometers for applications at optical frequencies. *Optics Letters*, **2018**, 43, 3180-3183	3	11
63	On-chip coherent detection with quantum limited sensitivity. *Scientific Reports*, **2017**, 7, 4812	4.9	11
62	Silicon nitride membrane photonics. *Journal of Optics*, **2009**, 11, 114017		11
61	Graphene Field-Effect Transistors Employing Different Thin Oxide Films: A Comparative Study. *ACS Omega*, **2019**, 4, 2256-2260	3.9	10
60	Chalcogenide phase-change devices for neuromorphic photonic computing. *Journal of Applied Physics*, **2021**, 129, 151103	2.5	10
59	Sub-Poisson-binomial light. *Physical Review A*, **2016**, 94,	2.6	10

58	Purcell-enhanced emission from individual SiV center in nanodiamonds coupled to a Si3N4-based, photonic crystal cavity. *Nanophotonics*, **2020**, 9, 3655-3662	6.3	9
57	Single-photon detection and cryogenic reconfigurability in lithium niobate nanophotonic circuits. *Nature Communications*, **2021**, 12, 6847	17.4	9
56	A plasmonically enhanced route to faster and more energy-efficient phase-change integrated photonic memory and computing devices. *Journal of Applied Physics*, **2021**, 129, 110902	2.5	8
55	Detector-integrated on-chip QKD receiver for GHz clock rates. *Npj Quantum Information*, **2021**, 7,	8.6	8
54	Behavioral modeling of integrated phase-change photonic devices for neuromorphic computing applications. *APL Materials*, **2019**, 7, 091113	5.7	7
53	Photothermal actuation in nanomechanical waveguide devices. *Journal of Applied Physics*, **2009**, 105, 014508	2.5	7
52	Optoelectromechanical phase shifter with low insertion loss and a 13 tuning range. *Optics Express*, **2021**, 29, 5525-5537	3.3	7
51	Self-Holding Optical Actuator Based on a Mixed Ionic Electronic Conductor Material. *ACS Photonics*, **2019**, 6, 1182-1190	6.3	6
50	Mode control and mode conversion in nonlinear aluminum nitride waveguides. *Optics Express*, **2013**, 21, 26742-61	3.3	6
49	Adiabatic embedment of nanomechanical resonators in photonic microring cavities. *Applied Physics Letters*, **2010**, 96, 263101	3.4	6
48	Pseudo-spectral time-domain simulation of the transmission and the group delay of photonic devices. *Optical and Quantum Electronics*, **2008**, 40, 1-12	2.4	6
47	Numerical investigation of field enhancement by metal nano-particles using a hybrid FDTD-PSTD algorithm. *Optics Express*, **2007**, 15, 11433-43	3.3	6
46	Broadband waveguide-integrated superconducting single-photon detectors with high system detection efficiency. *Applied Physics Letters*, **2021**, 118, 154004	3.4	6
45	Python based open source design framework for integrated nanophotonic and superconducting circuitry with 2D-3D-hybrid integration. *OSA Continuum*, **2019**, 2, 3091	1.4	6
44	Integrated Photonic Circuits in Gallium Nitride and Aluminum Nitride. *International Journal of High Speed Electronics and Systems*, **2014**, 23, 1450001	0.5	5
43	Polycrystalline diamond photonic waveguides realized by femtosecond laser lithography. *Optical Materials Express*, **2019**, 9, 3109	2.6	5
42	Diamond on aluminum nitride as a platform for integrated photonic circuits. *Physica Status Solidi (A) Applications and Materials Science*, **2016**, 213, 2075-2080	1.6	5
41	Hybrid Quantum Photonics Based on Artificial Atoms Placed Inside One Hole of a Photonic Crystal Cavity. *ACS Photonics*, **2021**, 8, 2635-2641	6.3	5

40	Analysis of the detection response of waveguide-integrated superconducting nanowire single-photon detectors at high count rate. *Applied Physics Letters*, **2019**, 115, 101104	3.4	4
39	Protocol of Measuring Hot-Spot Correlation Length for SNSPDs With Near-Unity Detection Efficiency. *IEEE Transactions on Applied Superconductivity*, **2019**, 29, 1-5	1.8	4
38	Gigahertz photothermal effect in silicon waveguides. *Applied Physics Letters*, **2008**, 93, 213106	3.4	4
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36	Efficient self-imaging grating couplers on a lithium-niobate-on-insulator platform at near-visible and telecom wavelengths. *Optics Express*, **2021**, 29, 20205-20216	3.3	4
35	Coherent characterisation of a single molecule in a photonic black box. *Nature Communications*, **2021**, 12, 706	17.4	4
34	Electronically Reconfigurable Photonic Switches Incorporating Plasmonic Structures and Phase Change Materials.. *Advanced Science*, **2022**, e2200383	13.6	4
33	Reconfigurable Nanophotonic Circuitry Enabled by Direct-Laser-Writing. *IEEE Journal of Selected Topics in Quantum Electronics*, **2020**, 26, 1-5	3.8	3
32	Circuit optomechanics: concepts and materials. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2014**, 61, 1889-98	3.2	3
31	Finite-difference time-domain simulation of dispersive features smaller than the grid spacing. *International Journal of Numerical Modelling: Electronic Networks, Devices and Fields*, **2007**, 20, 311-326	1	3
30	Broadband photonic tensor core with integrated ultra-low crosstalk wavelength multiplexers. *Nanophotonics*, **2022**,	6.3	3
29	Integrating two-photon nonlinear spectroscopy of rubidium atoms with silicon photonics. *Optics Express*, **2020**, 28, 19593-19607	3.3	3
28	Narrow Line Width Quantum Emitters in an Electron-Beam-Shaped Polymer. *ACS Photonics*, **2019**, 6, 3120-3125	6.5	3
27	System-Level Simulation for Integrated Phase-Change Photonics. *Journal of Lightwave Technology*, **2021**, 1-1	4	3
26	Interlaboratory Study on Sb2S3 Interplay between Structure, Dielectric Function and Amorphous-to-Crystalline Phase Change for Photonics. *IScience*, **2022**, 104377	6.1	3
25	. *IEEE Transactions on Applied Superconductivity*, **2017**, 27, 1-5	1.8	2
24	Travelling-wave single-photon detectors integrated with diamond photonic circuits: operation at visible and telecom wavelengths with a timing jitter down to 23 ps **2016**,		2
23	Photonic crystal dumbbell resonators in silicon and aluminum nitride integrated optical circuits. *Journal of Nanophotonics*, **2013**, 7, 073095	1.1	2

22	All-optical signal processing using phase-change nanophotonics **2017**,		1
21	Diamond components with integrated abrasion sensor for tribological applications. *Diamond and Related Materials*, **2007**, 16, 991-995	3.5	1
20	Waveguide-Integrated Superconducting Nanowire SinglePhoton Detector Array for Ultra-Fast Quantum Key Distribution **2020**,		1
19	Integrated Phase-change Photonics: A Strategy for Merging Communication and Computing **2019**,		1
18	Integrated quantum photonic circuits made from diamond. *Semiconductors and Semimetals*, **2021**, 104, 149-171	0.6	1
17	Superconducting single-photon detector for integrated waveguide spectrometer. *EPJ Web of Conferences*, **2018**, 190, 04009	0.3	1
16	Lichtschnelles Nervennetz. *Physik in Unserer Zeit*, **2019**, 50, 282-288	0.1	0
15	Performance characteristics of phase-change integrated silicon nitride photonic devices in the O and C telecommunications bands. *Optical Materials Express*, **2020**, 10, 1778	2.6	0
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13	Circuit Optomechanics with Diamond Integrated Optical Devices. *NATO Science for Peace and Security Series B: Physics and Biophysics*, **2017**, 213-221	0.2	
12	Investigation on Metal□Oxide Graphene Field-Effect Transistors With Clamped Geometries. *IEEE Journal of the Electron Devices Society*, **2019**, 7, 964-968	2.3	
11	Nichtfl□chtiger optischer Speicher in photonischen Schaltkreisen. *Physik in Unserer Zeit*, **2016**, 47, 9-10	0.1	
10	Waveguide Integrated Superconducting Nanowire Single Photon Detectors on Silicon. *Quantum Science and Technology*, **2016**, 85-105	1.2	
9	A silicon nanowire factorable photon pair source. *Optical and Quantum Electronics*, **2013**, 45, 357-364	2.4	
8	Integrated Optomechanical Circuits and Nonlinear Dynamics **2014**, 169-194		
7	Nanosession: Phase Change Memories **2013**, 163-176		
6	Highly Compact and Scalable Waveguide-Integrated Single Photon Spectrometer Based on Tailored Disorder. *NATO Science for Peace and Security Series B: Physics and Biophysics*, **2018**, 405-405	0.2	
5	Diamond Nanophotonic Circuits. *NATO Science for Peace and Security Series B: Physics and Biophysics* , **2018**, 371-371	0.2	

List of Publications

4	Integrated Optomechanics: Opportunities for Tunable Nanophotonic Devices. *NATO Science for Peace and Security Series B: Physics and Biophysics*, **2015**, 249-256	0.2
3	Chapter 13 Waveguide Integrated Superconducting Single Photon Detectors. *NATO Science for Peace and Security Series B: Physics and Biophysics*, **2018**, 255-265	0.2
2	Spontaneous parametric downconversion in linearly uncoupled resonators.. *Optics Letters*, **2022**, 47, 1766-1769	3
1	Nanophotonic Circuits forUnconventional Computing Applications. *NATO Science for Peace and Security Series B: Physics and Biophysics*, **2022**, 125-132	0.2