

# Emmanuel Akowuah

## List of Publications by Year in descending order

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Version: 2024-02-01

26  
papers

877  
citations

932766

10  
h-index

887659

17  
g-index

31  
all docs

31  
docs citations

31  
times ranked

575  
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical analysis of photonic crystal fibre with high birefringence and high nonlinearity. Journal of Optical Communications, 2024, 44, s543-s550.	4.0	7
2	Design and Numerical Analysis of a Single-Polarization Filter Based on PCF with Plasmonic Layers of Gold and Indium Tin Oxide. International Journal of Optics, 2022, 2022, 1-8.	0.6	2
3	Design and Theoretical Analysis of a Dual-Polarized Quasi D-Shaped Plasmonic PCF Microsensor for Back-to-Back Measurement of Refractive Index and Temperature. IEEE Sensors Journal, 2021, 21, 9860-9868.	2.4	17
4	Communication Medium Used by Clients and Health Professionals in Accessing and Providing Healthcare in Low Resource Setting: A Descriptive Cross-Sectional Study. Advances in Public Health, 2021, 2021, 1-7.	0.7	1
5	A proposed Ghanaian intercity public transport departure scheduling model based on the dynamic rate leaky bucket algorithm. Scientific African, 2021, 12, e00749.	0.7	0
6	Passenger counting in minivan-taxis using crowd-sourcing and hierarchical clustering. Scientific African, 2021, 13, e00842.	0.7	0
7	Assaying with PCF-based SPR refractive index biosensors: From recent configurations to outstanding detection limits. Optical Fiber Technology, 2020, 54, 102083.	1.4	41
8	Numerical analysis of photonic crystal fiber of ultra-high birefringence and high nonlinearity. Scientific Reports, 2020, 10, 21182.	1.6	33
9	A scabies outbreak in the North East Region of Ghana: The necessity for prompt intervention. PLoS Neglected Tropical Diseases, 2020, 14, e0008902.	1.3	8
10	A theoretical investigation of a photonic crystal fibre with ultra-flattened chromatic dispersion with three zero crossing dispersion wavelengths. Optical Fiber Technology, 2019, 53, 102032.	1.4	6
11	Reducing secondary user collisions in TV White Space through a Geolocation Database Middleware. , 2018, , .		0
12	Optic cup and optic disc analysis for glaucoma screening using pulse-coupled neural networks and line profile analysis. , 2018, , .		1
13	Effect of the elliptic rods orientations on the asymmetric light transmission in photonic crystals. Optics Communications, 2017, 392, 147-152.	1.0	7
14	Unidirectional light propagation photonic crystal waveguide incorporating modified defects. Optik, 2017, 130, 1370-1376.	1.4	3
15	Multi-channel SPR biosensor based on PCF for multi-analyte sensing applications. Optics Express, 2015, 23, 15716.	1.7	142
16	Design of Environmental Biosensor Based on Photonic Crystal Fiber with Bends Using Finite Element Method. Optics and Photonics Journal, 2015, 05, 69-78.	0.3	2
17	A Novel Birefringent Photonic Crystal Fiber Surface Plasmon Resonance Biosensor. IEEE Photonics Journal, 2014, 6, 1-11.	1.0	149
18	Photonic crystal fiber based sensor. , 2013, , .		0

#	ARTICLE	IF	CITATIONS
19	A highly sensitive photonic crystal fibre (PCF) surface plasmon resonance (SPR) sensor based on a bimetallic structure of gold and silver. , 2012, , .		25
20	Numerical Analysis of a Photonic Crystal Fiber for Biosensing Applications. IEEE Journal of Quantum Electronics, 2012, 48, 1403-1410.	1.0	282
21	Design and analysis of photonic crystal fibres (PCFs) for broadband applications. , 2012, , .		7
22	Design of Multicavities on Left-Handed Photonic-Crystal-Based Chemical Sensors. Journal of Lightwave Technology, 2012, 30, 3288-3293.	2.7	12
23	A planar waveguide surface plasmon resonance biosensor based on Otto configuration. , 2012, , .		1
24	Dual channel planar waveguide surface plasmon resonance biosensor for an aqueous environment. Optics Express, 2010, 18, 24412.	1.7	40
25	An Endlessly Single-Mode Photonic Crystal Fiber With Low Chromatic Dispersion, and Bend and Rotational Insensitivity. Journal of Lightwave Technology, 2009, 27, 3940-3947.	2.7	32
26	Design and optimization of a novel surface plasmon resonance biosensor based on Otto configuration. Optics Express, 2009, 17, 23511.	1.7	59