

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 a Photonic Crystal Fiber for Biosensing Applications. IEEE Journal of Quantum Electronics, 2012, 48, 1403-1410.	1.0	282
2	A Novel Birefringent Photonic Crystal Fiber Surface Plasmon Resonance Biosensor. IEEE Photonics Journal, 2014, 6, 1-11.	1.0	149
3	Multi-channel SPR biosensor based on PCF for multi-analyte sensing applications. Optics Express, 2015, 23, 15716.	1.7	142
4	Design and optimization of a novel surface plasmon resonance biosensor based on Otto configuration. Optics Express, 2009, 17, 23511.	1.7	59
5	Assaying with PCF-based SPR refractive index biosensors: From recent configurations to outstanding detection limits. Optical Fiber Technology, 2020, 54, 102083.	1.4	41
6	Dual channel planar waveguide surface plasmon resonance biosensor for an aqueous environment. Optics Express, 2010, 18, 24412.	1.7	40
7	Numerical analysis of photonic crystal fiber of ultra-high birefringence and high nonlinearity. Scientific Reports, 2020, 10, 21182.	1.6	33
8	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
9	A highly sensitive photonic crystal fibre (PCF) surface plasmon resonance (SPR) sensor based on a bimetallic structure of gold and silver. , 2012, , .		25
10	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
11	Design of Multicavities on Left-Handed Photonic-Crystal-Based Chemical Sensors. Journal of Lightwave Technology, 2012, 30, 3288-3293.	2.7	12
12	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
13	Design and analysis of photonic crystal fibres (PCFs) for broadband applications. , 2012, , .		7
14	Effect of the elliptic rods orientations on the asymmetric light transmission in photonic crystals. Optics Communications, 2017, 392, 147-152.	1.0	7
15	Numerical analysis of photonic crystal fibre with high birefringence and high nonlinearity. Journal of Optical Communications, 2024, 44, s543-s550.	4.0	7
16	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
17	Unidirectional light propagation photonic crystal waveguide incorporating modified defects. Optik, 2017, 130, 1370-1376.	1.4	3
18	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

#	ARTICLE	IF	CITATIONS
19	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
20	A planar waveguide surface plasmon resonance biosensor based on Otto configuration. , 2012, , .		1
21	Optic cup and optic disc analysis for glaucoma screening using pulse-coupled neural networks and line profile analysis. , 2018, , .		1
22	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
23	Photonic crystal fiber based sensor. , 2013, , .		0
24	Reducing secondary user collisions in TV White Space through a Geolocation Database Middleware. , 2018, , .		0
25	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
26	Passenger counting in minivan-taxis using crowd-sourcing and hierarchical clustering. Scientific African, 2021, 13, e00842.	0.7	0