

Ayyanar N

List of Publications by Year in descending order

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Version: 2024-02-01

29
papers

717
citations

759233

12
h-index

610901

24
g-index

29
all docs

29
docs citations

29
times ranked

425
citing authors

#	ARTICLE	IF	CITATIONS
1	Photonic Crystal Fiber-Based Refractive Index Sensor for Early Detection of Cancer. IEEE Sensors Journal, 2018, 18, 7093-7099.	4.7	160
2	Salinity sensor using photonic crystal fiber. Sensors and Actuators A: Physical, 2018, 269, 22-28.	4.1	95
3	Highly efficient compact temperature sensor using liquid infiltrated asymmetric dual elliptical core photonic crystal fiber. Optical Materials, 2017, 64, 574-582.	3.6	72
4	Tricore photonic crystal fibre based refractive index sensor for glucose detection. IET Optoelectronics, 2019, 13, 118-123.	3.3	63
5	Hydrostatic Pressure Sensor Using High Birefringence Photonic Crystal Fibers. IEEE Sensors Journal, 2017, 17, 650-656.	4.7	54
6	D-glucose sensor using photonic crystal fiber. Optik, 2017, 145, 489-494.	2.9	51
7	Detection of moisture content in transformer oil using platinum coated on D-shaped optical fiber. Optical Fiber Technology, 2018, 45, 115-121.	2.7	32
8	Photonic Crystal Fiber-Based Reconfigurable Biosensor Using Phase Change Material. IEEE Transactions on Nanobioscience, 2021, 20, 338-344.	3.3	29
9	Enhanced sensitivity of hemoglobin sensor using dual-core photonic crystal fiber. Optical and Quantum Electronics, 2018, 50, 1.	3.3	23
10	Design and Performance Analysis of Reconfigurable 1D Photonic Crystal Biosensor Employing Ge ₂ Sb ₂ Te ₄ (GST) for Detection of Women Reproductive Hormones. IEEE Transactions on Nanobioscience, 2022, 21, 21-28.	3.3	22
11	Detection of Blood Glucose With Hemoglobin Content Using Compact Photonic Crystal Fiber. IEEE Transactions on Nanobioscience, 2021, 20, 436-443.	3.3	17
12	Photonic crystal-based biosensor for detection of human red blood cells parasitized by plasmodium falciparum. Optical and Quantum Electronics, 2022, 54, 1.	3.3	15
13	Investigation of transmission properties in defective one dimensional superconductive photonic crystal for ultralow level bioethanol detection. Optik, 2021, 245, 167733.	2.9	13
14	Asymmetric-clad multi-trench fibers with large mode-area and controlled leakage loss. Optical Fiber Technology, 2019, 48, 235-241.	2.7	11
15	Graphene-assisted tunable D-shaped photonic crystal fiber sensor in the visible and IR regions. Journal of the Optical Society of America B: Optical Physics, 2022, 39, 1490.	2.1	10
16	Tunable differential modal gain in FM-EDFA system using dual pumping scheme at 100 Gbps system capacity. Photonic Network Communications, 2017, 34, 451-460.	2.7	7
17	Highly sensitive tri-path photonic crystal fiber plasmonic sensor based on hybrid layer of gold/platinum diselenide. Optical and Quantum Electronics, 2021, 53, 1.	3.3	7
18	High amplitude sensitivity gold-coated trichannel photonic crystal fibre for refractive index sensor. IET Optoelectronics, 2021, 15, 185-193.	3.3	6

#	ARTICLE	IF	CITATIONS
19	Deep Learning Based Data Augmentation and Behavior Prediction of Photonic Crystal Fiber Temperature Sensor. IEEE Sensors Journal, 2022, 22, 6832-6839.	4.7	6
20	Numerical characterization of 1D-Photonic crystal waveguide for female reproductive hormones sensing applications. Physica B: Condensed Matter, 2022, 639, 414011.	2.7	6
21	Manipulating high birefringence in elliptical core meta fiber by varying metal/dielectric concentration of the framed AMM. Optical and Quantum Electronics, 2017, 49, 1.	3.3	4
22	Design of Glucose Sensor Using Tri-Core Modified Photonic Crystal Fiber. , 2018, , .		4
23	Surface-plasmon-based photonic crystal fibers for high-bandwidth filter realization. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 1574.	2.1	4
24	Hybrid plasmonic label-free multi-analyte refractive index sensor. Optoelectronics Letters, 2019, 15, 269-272.	0.8	3
25	Hollow-Core Microstructured Optical Fiber Based Refractometer: Numerical Simulation and Experimental Studies. IEEE Transactions on Nanobioscience, 2022, 21, 194-198.	3.3	2
26	Design of temperature sensor using liquid filled photonic crystal fiber. , 2016, , .		1
27	Photonic Crystal Fibre - Based Surface Plasmon Filter Realization. , 2019, , .		0
28	Lasing characteristics of highly bend compensated large mode area ytterbium doped modified hybrid multi trench fiber. Optical Fiber Technology, 2021, 61, 102444.	2.7	0
29	Design of Elliptical Ring Core Fiber with support of four LP modes in SDM applications. , 2017, , .		0