Hussein A Elsayed

List of Publications by Year in descending order

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58 papers	1,412 citations	279701 23 h-index	414303 32 g-index
60 all docs	60 docs citations	60 times ranked	316 citing authors

#	Article	IF	Citations
1	Tunability of two dimensional n-doped semiconductor photonic crystals based on the Faraday effect. Optics Express, 2015, 23, 15038.	1.7	60
2	Cutoff frequency in metamaterials photonic crystals within Terahertz frequencies. International Journal of Modern Physics B, 2017, 31, 1750123.	1.0	51
3	Detection and sensing of hemoglobin using one-dimensional binary photonic crystals comprising a defect layer. Applied Optics, 2020, 59, 418.	0.9	49
4	One-dimensional defective photonic crystals for the sensing and detection of protein. Applied Optics, 2019, 58, 8309.	0.9	49
5	Analysis of cutoff frequency in a one-dimensional superconductor-metamaterial photonic crystal. Physica C: Superconductivity and Its Applications, 2016, 528, 5-8.	0.6	45
6	Dielectric and Superconducting Photonic Crystals. Journal of Superconductivity and Novel Magnetism, 2013, 26, 553-560.	0.8	44
7	1D porous silicon photonic crystals comprising Tamm/Fano resonance as high performing optical sensors. Journal of Molecular Liquids, 2021, 322, 114978.	2.3	44
8	Defect mode tunability based on the electro-optical characteristics of the one-dimensional graphene photonic crystals. Applied Optics, 2020, 59, 4796.	0.9	44
9	Thermal properties and two-dimensional photonic band gaps. Journal of Modern Optics, 2014, 61, 385-389.	0.6	42
10	Tunability of defective one-dimensional photonic crystals based on Faraday effect. Journal of Modern Optics, 2017, 64, 871-877.	0.6	36
11	Tunable properties of one-dimensional photonic crystals that incorporate a defect layer of a magnetized plasma. International Journal of Modern Physics B, 2017, 31, 1750239.	1.0	36
12	Thermo-optical properties of binary one dimensional annular photonic crystal including temperature dependent constituents. Physica E: Low-Dimensional Systems and Nanostructures, 2020, 119, 114020.	1.3	34
13	Tuning the flow of light in two-dimensional metallic photonic crystals based on Faraday effect. Journal of Modern Optics, 2017, 64, 74-80.	0.6	33
14	High-Performance Temperature Sensor Based on One-dimensional Pyroelectric Photonic Crystals Comprising Tamm/Fano Resonances. Plasmonics, 2021, 16, 547-557.	1.8	33
15	Fano Resonance by Means of the One-Dimensional Superconductor Photonic Crystals. Journal of Superconductivity and Novel Magnetism, 2018, 31, 3827-3833.	0.8	32
16	Transmittance properties of one dimensional ternary nanocomposite photonic crystals. Materials Research Express, 2018, 5, 036209.	0.8	31
17	The properties of cutoff frequency in two-dimensional superconductor photonic crystals. Journal of Modern Optics, 2014, 61, 1064-1068.	0.6	30
18	Sensitivity enhancement of annular one dimensional photonic crystals temperature sensors with nematic liquid crystals. Physica Scripta, 2020, 95, 085508.	1.2	29

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19	Maximization of Photonic Bandgaps in Two-Dimensional Superconductor Photonic Crystals. Journal of Superconductivity and Novel Magnetism, 2014, 27, 1615-1621.	0.8	27
20	A new method for glucose detection using the one dimensional defective photonic crystals. Materials Research Express, 2019, 6, 036201.	0.8	27
21	Detection of toluene traces in exhaled breath by using a 1D PC as a biomarker for lung cancer diagnosis. European Physical Journal Plus, 2021, 136, 1.	1.2	26
22	Simple and efficient design towards a significant improvement of the optical absorption of amorphous silicon solar cell. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 275, 107890.	1.1	26
23	Two dimensional tunable photonic crystals and n doped semiconductor materials. Materials Chemistry and Physics, 2015, 160, 221-226.	2.0	25
24	Terahertz frequency superconductor-nanocomposite photonic band gap. International Journal of Modern Physics B, 2018, 32, 1850056.	1.0	25
25	Quasiperiodic photonic crystals for filtering purpose by means of the n doped semiconductor material. Physica Scripta, 2020, 95, 065504.	1.2	25
26	Theoretical verification of photonic crystals sensor for biodiesel detection and sensing. Physica Scripta, 2020, 95, 085507.	1.2	25
27	A multi-channel optical filter by means of one dimensional n doped semiconductor dielectric photonic crystals. Materials Chemistry and Physics, 2018, 216, 191-196.	2.0	24
28	Novel Design for the Temperature Sensing Using Annular Photonic Crystals. Silicon, 2021, 13, 4737-4745.	1.8	24
29	Graphene deposited liquid crystal and thermal sensitivity using photonic crystals. Physica Scripta, 2021, 96, 035503.	1.2	24
30	Numerical optimization of 1D superconductor photonic crystals pressure sensor for low temperatures applications. Solid State Communications, 2022, 343, 114671.	0.9	24
31	Transmission investigation of one-dimensional Fibonacci-based quasi-periodic photonic crystals including nanocomposite material and plasma. Physica Scripta, 2020, 95, 035504.	1.2	23
32	Theoretical investigations of Tamm plasmon resonance for monitoring of isoprene traces in the exhaled breath: Towards chronic liver fibrosis disease biomarkers. Physics Letters, Section A: General, Atomic and Solid State Physics, 2021, 413, 127610.	0.9	23
33	Monitoring of soybean biodiesel based on the one-dimensional photonic crystals comprising porous silicon. Applied Nanoscience (Switzerland), 2021, 11, 149-157.	1.6	22
34	Photonic Crystal Enhanced by Metamaterial for Measuring Electric Permittivity in GHz Range. Photonics, 2021, 8, 416.	0.9	22
35	Optical properties of one-dimensional defective photonic crystal containing nanocomposite material. Journal of Nonlinear Optical Physics and Materials, 2017, 26, 1750007.	1.1	21
36	Transmittance properties of a quasi-periodic one-dimensional photonic crystals that incorporate nanocomposite material. International Journal of Modern Physics B, 2018, 32, 1850220.	1.0	21

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37	Theoretical investigation of pressure sensing using a defect of polystyrene inside photonic crystals. Materials Chemistry and Physics, 2021, 270, 124853.	2.0	21
38	Development of the Monolayer Silicon Solar Cell Based on Photonic Crystals. Silicon, 2019, 11, 1377-1382.	1.8	20
39	Transmittance properties of one-dimensional metallic-dielectric photonic crystals in near-zero permittivity. Physica Scripta, 2019, 94, 125501.	1.2	20
40	Detection of heavy metals using one-dimensional gyroidal photonic crystals for effective water treatment. Materials Chemistry and Physics, 2022, 285, 126125.	2.0	20
41	One-Dimensional Metallo-Superconductor Photonic Crystals as a Smart Window. Journal of Superconductivity and Novel Magnetism, 2019, 32, 2313-2318.	0.8	19
42	Optical properties of photonic crystals based on graphene nanocomposite within visible and IR wavelengths. Optical and Quantum Electronics, 2020, 52, 1.	1.5	19
43	Optical Properties of New Type of Superconductor-Semiconductor Metamaterial Photonic Crystals. Journal of Superconductivity and Novel Magnetism, 2018, 31, 3453-3457.	0.8	16
44	Photonic crystal defective superconductor and black body radiations. Optical and Quantum Electronics, 2018, 50, 1.	1.5	15
45	Textured concave anti-reflecting coating and convex back reflector to enhance the absorbance of amorphous Si solar cells. Physica Scripta, 2022, 97, 055503.	1.2	15
46	The optical transmission characteristics in metallic photonic crystals. Materials Chemistry and Physics, 2010, 124, 856-860.	2.0	13
47	The transmissivity of one-dimensional photonic crystals comprising three phases nanocomposite layer for optical switching purposes. Physica Scripta, 2021, 96, 115504.	1.2	10
48	Fuel Phononic Crystal Sensor for the Determination and Discrimination of Gasoline Components. Plasmonics, 2021, 16, 2193-2200.	1.8	8
49	Multi passbands filter for THz applications based on the one-dimensional photonic crystals heterostructure. Optik, 2021, 248, 168056.	1.4	8
50	One-dimensional symmetric phononic crystals sensor: towards salinity detection and water treatment. Optical and Quantum Electronics, 2022, 54, .	1.5	8
51	Towards Promising Platform by Using Annular Photonic Crystals to Simulate and Design Useful Mask. Photonics, 2021, 8, 349.	0.9	7
52	Simple, efficient and accurate method toward the monitoring of ethyl butanoate traces. Optical and Quantum Electronics, 2022, 54, 126.	1.5	7
53	Evolution of optical Tamm states in a 1D photonic crystal comprising a nanocomposite layer for optical filtering and reflecting purposes. Optical and Quantum Electronics, 2022, 54, 1.	1.5	7
54	Hydrostatic pressure effects for controlling the phononic band gap properties in a perfect phononic crystal. Optical and Quantum Electronics, 2022, 54, 1.	1.5	6

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55	PHOTONIC BAND GAPS PROPERTIES OF TWO-DIMENSIONAL TERNARY SUPERCONDUCTOR PHOTONIC CRYSTALS. Surface Review and Letters, 2019, 26, 1850152.	0.5	5
56	Design of hexa-wheel sectored photonic crystal fiber for soybean biodiesel sensing. Physica Scripta, 2022, 97, 030005.	1.2	4
57	Defect mode modulation for a protein solution cavity surrounded by graphene and nanocomposite layers. Optik, 2021, 242, 167161.	1.4	3
58	Optimizing photonic and phononic crystal parameters for sensing organic compounds. Applied Nanoscience (Switzerland), 2021, 11, 2703-2716.	1.6	3