

Sofyan A Taya

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

106
papers

1,193
citations

22
h-index

27
g-index

125
ext. papers

1,668
ext. citations

2.2
avg, IF

5.34
L-index

#	Paper	IF	Citations
106	Sensitivity enhancement of an optical sensor based on a binary photonic crystal for the detection of Escherichia coli by controlling the central wavelength and the angle of incidence. <i>Optical and Quantum Electronics</i> , 2022 , 54, 1	2.4	1
105	Surface plasmon resonance biosensor based on graphene layer for the detection of waterborne bacteria.. <i>Journal of Biophotonics</i> , 2022 , e202200001	3.1	4
104	Detection of water concentration in ethanol solution using a ternary photonic crystal-based sensor. <i>Materials Chemistry and Physics</i> , 2022 , 279, 125772	4.4	2
103	Design of a novel optical sensor for the detection of waterborne bacteria based on a photonic crystal with an ultra-high sensitivity. <i>Optical and Quantum Electronics</i> , 2022 , 54, 1	2.4	3
102	Multi-layered graphene silica-metasurface based infrared polarizer structure. <i>Optical and Quantum Electronics</i> , 2022 , 54, 1	2.4	0
101	Wide-Angle Absorption Based on Angle-Insensitive Light Slowing Effect in Photonic Crystal Containing Hyperbolic Metamaterials. <i>Photonics</i> , 2022 , 9, 181	2.2	
100	Metamaterial-based refractive index sensor using Ge 2 Sb 2 Te 5 substrate for glucose detection. <i>Microwave and Optical Technology Letters</i> , 2022 , 64, 867-872	1.2	7
99	Properties of the defect mode of a ternary photonic crystal having an n-doped semiconductor as a defect layer: TE case. <i>Materials Science in Semiconductor Processing</i> , 2022 , 144, 106626	4.3	0
98	Design of a nano-sensor for cancer cell detection based on a ternary photonic crystal with high sensitivity and low detection limit. <i>Chinese Journal of Physics</i> , 2022 , 77, 1168-1181	3.5	1
97	Graphene-based metasurface solar absorber design for the visible and near-infrared region with behavior prediction using Polynomial Regression. <i>Optik</i> , 2022 , 169298	2.5	4
96	Highly sensitive nano-sensor based on a binary photonic crystal for the detection of mycobacterium tuberculosis bacteria. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 28406	2.1	2
95	Modelling of three tunable multichannel filters using Ag metal as a defect layer in a photonic crystal. <i>Optical and Quantum Electronics</i> , 2021 , 53, 1	2.4	2
94	Surface plasmon resonance-based optical sensor using a thin layer of plasma. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2021 , 38, 2362	1.7	5
93	Waveguides including negative permeability and simultaneously negative permittivity and permeability materials for sensing applications. <i>Optik</i> , 2021 , 228, 166147	2.5	0
92	Dispersion properties of slab waveguides with a linear graded-index film and a nonlinear substrate. <i>Microsystem Technologies</i> , 2021 , 27, 2589-2594	1.7	1
91	Universal dispersion curves of a planar waveguide with an exponential graded-index guiding layer and a nonlinear cladding. <i>Results in Physics</i> , 2021 , 20, 103734	3.7	4
90	Properties of defect modes and band gaps of mirror symmetric metal-dielectric 1D photonic crystals. <i>Optical and Quantum Electronics</i> , 2021 , 53, 1	2.4	5

89	Analysis of proposed PCF with square air hole for revolutionary high birefringence and nonlinearity. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2021 , 43, 100896	2.6	3
88	An ultra-high birefringent and nonlinear decahedron photonic crystal fiber employing molybdenum disulphide (MoS ₂): A numerical analysis. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2021 , 270, 115236	3.1	3
87	Cancer cell detector based on a slab waveguide of anisotropic, lossy, and dispersive left-handed material. <i>Applied Optics</i> , 2021 , 60, 8360-8367	1.7	2
86	Enhancement of optical visible wavelength region selective reflector for photovoltaic cell applications using a ternary photonic crystal. <i>Optik</i> , 2021 , 243, 167491	2.5	5
85	Properties of band gap for p-polarized wave propagating in a binary superconductor-dielectric photonic crystal. <i>Optik</i> , 2021 , 243, 167505	2.5	3
84	A highly birefringent bend-insensitive porous core PCF for endlessly single-mode operation in THz regime: an analysis with core porosity. <i>Applied Nanoscience (Switzerland)</i> , 2021 , 11, 1021-1030	3.3	0
83	Highly Sensitive Refractive Index Sensor for Temperature and Salinity Measurement of Seawater. <i>Optik</i> , 2020 , 216, 164901	2.5	12
82	One-dimensional ring mirror-defect photonic crystal for detection of mycobacterium tuberculosis bacteria. <i>Optik</i> , 2020 , 219, 165097	2.5	12
81	Optical fiber surrounded by a graphene layer as an optical sensor. <i>Optical and Quantum Electronics</i> , 2020 , 52, 1	2.4	5
80	Refractometric sensor based on slab waveguides of simultaneously negative permittivity and permeability materials. <i>Optical and Quantum Electronics</i> , 2020 , 52, 1	2.4	
79	Properties of a binary photonic crystal with an inverted symmetry and a defect layer. <i>European Physical Journal Plus</i> , 2020 , 135, 1	3.1	2
78	Design of a slab waveguide using a graded index profile and a left hand material. <i>Physica B: Condensed Matter</i> , 2019 , 564, 59-63	2.8	6
77	Properties of ternary photonic crystal consisting of dielectric/plasma/dielectric as a lattice period. <i>Optik</i> , 2019 , 185, 784-793	2.5	25
76	Analysis of photonic band gap in photonic crystal with epsilon negative and double negative materials. <i>Optik</i> , 2019 , 183, 203-210	2.5	16
75	Enhanced sensitivity of cancer cell using one dimensional nano composite material coated photonic crystal. <i>Microsystem Technologies</i> , 2019 , 25, 189-196	1.7	54
74	Design of one dimensional defect based photonic crystal by composited superconducting material for bio sensing applications. <i>Physica B: Condensed Matter</i> , 2019 , 572, 42-55	2.8	39
73	Nonlinear polarization in metal nanocomposite system based photonic crystals. <i>Optik</i> , 2019 , 176, 78-84	2.5	23
72	Transverse magnetic mode slab waveguide optical sensor in the presence of conducting interfaces. <i>Optik</i> , 2019 , 178, 1090-1096	2.5	4

71	Plasmon modes supported by left-handed material slab waveguide with conducting interfaces. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2018 , 30, 39-44	2.6	6
70	Propagation of Electromagnetic Waves in Slab Waveguide Structure Consisting of Chiral Nihility Claddings and Negative-Index Material Core Layer. <i>Photonic Sensors</i> , 2018 , 8, 176-187	2.3	5
69	Reflected and transmitted powers of p-polarized electromagnetic waves through a dielectric slab surrounded by double negative materials. <i>Journal of Electromagnetic Waves and Applications</i> , 2018 , 32, 1541-1559	1.3	
68	Theoretical investigation of five-layer waveguide structure including two left-handed material layers for refractometric applications. <i>Journal of Magnetism and Magnetic Materials</i> , 2018 , 449, 395-400	2.8	6
67	Ternary photonic crystal with left-handed material layer for refractometric application. <i>Opto-electronics Review</i> , 2018 , 26, 236-241	2.4	15
66	Binary photonic crystal for refractometric applications (TE case). <i>Indian Journal of Physics</i> , 2018 , 92, 519-527		7
65	Temperature sensor utilizing a ternary photonic crystal with a polymer layer sandwiched between Si and SiO ₂ layers. <i>Journal of Theoretical and Applied Physics</i> , 2018 , 12, 293-298	1.4	25
64	Extension of energy band gap in ternary photonic crystal using left-handed materials. <i>Superlattices and Microstructures</i> , 2018 , 120, 353-362	2.8	13
63	Photonic crystal with epsilon negative and double negative materials as an optical sensor. <i>Optical and Quantum Electronics</i> , 2018 , 50, 1	2.4	13
62	Propagation of p-polarized light in photonic crystal for sensor application. <i>Chinese Journal of Physics</i> , 2017 , 55, 571-582	3.5	8
61	Propagation of p-polarized waves in a linearly graded index film surrounded by negative index materials. <i>Optical and Quantum Electronics</i> , 2017 , 49, 1	2.4	2
60	Photonic crystal as a refractometric sensor operated in reflection mode. <i>Superlattices and Microstructures</i> , 2017 , 101, 299-305	2.8	22
59	Theoretical investigation of guided modes in planar waveguides having chiral negative index metamaterial core layer. <i>Optik</i> , 2017 , 131, 562-573	2.5	9
58	Reflection through a parallel-plate waveguide formed by two graphene sheets. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2017 , 24, 53-57	2.6	9
57	Characteristics of electromagnetic waves in slab waveguide structures comprising chiral nihility film and left-handed material claddings. <i>Optik</i> , 2017 , 149, 332-343	2.5	3
56	Slab waveguide with conducting interfaces as an efficient optical sensor: TE case. <i>Journal of Modern Optics</i> , 2017 , 64, 836-843	1.1	10
55	Dyes extracted from Trigonella seeds as photosensitizers for dye-sensitized solar cells. <i>Iranian Physical Journal</i> , 2016 , 10, 265-270		6
54	Slab waveguide sensor utilizing left-handed material core and substrate layers. <i>Optik</i> , 2016 , 127, 7732-7739		11

53	Dyes Extracted from Safflower, Medicago Sativa, and Ros Marinus Oficinalis as Photosensitizers for Dye-sensitized Solar Cells. <i>Journal of Nano- and Electronic Physics</i> , 2016 , 8, 01026-1-01026-5	1.5	8
52	Characteristics of Symmetric Left-Handed Material Slab Waveguide. <i>IOSR Journal of Applied Physics</i> , 2016 , 08, 91-98		3
51	Dye-sensitized solar cells based on dyes extracted from dried plant leaves. <i>Turkish Journal of Physics</i> , 2015 , 39, 24-30	1.6	23
50	Dispersion properties of lossy, dispersive, and anisotropic left-handed material slab waveguide. <i>Optik</i> , 2015 , 126, 1319-1323	2.5	29
49	Effect of the orientation of the fixed analyzer on the ellipsometric parameters in rotating polarizer and compensator ellipsometer with speed ratio 1:1. <i>Optical and Quantum Electronics</i> , 2015 , 47, 2039-2053	2.4	2
48	P-polarized surface waves in a slab waveguide with left-handed material for sensing applications. <i>Journal of Magnetism and Magnetic Materials</i> , 2015 , 377, 281-285	2.8	40
47	Reflection and transmission from left-handed material structures using Lorentz and Drude medium models. <i>Opto-electronics Review</i> , 2015 , 23,	2.4	17
46	A comparative study: synthetic dyes as photosensitizers for dye-sensitized solar cells. <i>Turkish Journal of Physics</i> , 2015 , 39, 272-279	1.6	6
45	Three Fresh Plant Seeds as Natural Dye Sensitizers for Titanium Dioxide Based Dye Sensitized Solar Cells. <i>British Journal of Applied Science & Technology</i> , 2015 , 5, 380-386		4
44	A spectroscopic ellipsometer using rotating polarizer and analyzer at a speed ratio 1:1 and a compensator. <i>Optical and Quantum Electronics</i> , 2014 , 46, 883-895	2.4	5
43	Slab waveguide with air core layer and anisotropic left-handed material claddings as a sensor. <i>Opto-electronics Review</i> , 2014 , 22,	2.4	37
42	Optimization of transverse electric peak-type metal-clad waveguide sensor using double-negative materials. <i>Applied Physics A: Materials Science and Processing</i> , 2014 , 116, 1841-1846	2.6	26
41	Transverse magnetic peak type metal-clad optical waveguide sensor. <i>Optik</i> , 2014 , 125, 97-100	2.5	29
40	Design of a spectroscopic ellipsometer by synchronous rotation of the polarizer and analyzer in opposite directions. <i>Microwave and Optical Technology Letters</i> , 2014 , 56, 2822-2826	1.2	2
39	Dye-sensitized solar cells with natural dyes extracted from plant seeds. <i>Materials Science-Poland</i> , 2014 , 32, 547-554	0.6	19
38	Aldimine derivatives as photosensitizers for dye-sensitized solar cells. <i>Turkish Journal of Physics</i> , 2014 , 38, 86-90	1.6	8
37	Excitation of TE surface polaritons on metal- μ IM interfaces. <i>Optik</i> , 2014 , 125, 1401-1405	2.5	23
36	Guided modes in slab waveguides with negative index cladding and substrate. <i>Optik</i> , 2013 , 124, 1431-1436	2.5	27

35	Peak type metal-clad waveguide sensor using negative index materials. <i>AEU - International Journal of Electronics and Communications</i> , 2013 , 67, 984-986	2.8	22
34	Transverse magnetic peak type metal-clad optical waveguide sensor. <i>Optik</i> , 2013 , 124, 7080-7084	2.5	
33	Rotating polarizer analyzer ellipsometer with a fixed compensator. <i>Optik</i> , 2013 , 124, 3379-3383	2.5	4
32	Dispersion properties of slab waveguides with double negative material guiding layer and nonlinear substrate. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2013 , 30, 2008	1.7	26
31	Dye-Sensitized Solar Cells Using Fresh and Dried Natural Dyes. <i>International Journal of Materials Science and Applications</i> , 2013 , 2, 37	0.3	35
30	Rotating polarizer, compensator, and analyzer ellipsometry. <i>Chinese Physics B</i> , 2013 , 22, 120703	1.2	2
29	Optical sensors based on FabryPerot resonator and fringes of equal thickness structure. <i>Optik</i> , 2012 , 123, 417-421	2.5	20
28	Symmetric multilayer slab waveguide structure with a negative index material: TM case. <i>Optik</i> , 2012 , 123, 2264-2268	2.5	24
27	Goos-Hänchen shift as a probe in evanescent slab waveguide sensors. <i>AEU - International Journal of Electronics and Communications</i> , 2012 , 66, 204-210	2.8	27
26	Effect of noise on the optical parameters extracted from different ellipsometric configurations. <i>Physica Scripta</i> , 2012 , 85, 045706	2.6	1
25	Ellipsometric configurations using a phase retarder and a rotating polarizer and analyzer at any speed ratio. <i>Chinese Physics B</i> , 2012 , 21, 110701	1.2	5
24	Metal-clad waveguide sensor using a left-handed material as a core layer. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2012 , 29, 959	1.7	46
23	Dye-Sensitized Solar Cells Based on ZnO Films and Natural Dyes. <i>International Journal of Materials and Chemistry</i> , 2012 , 2, 105-110	1	27
22	Planar slab waveguide sensor with a left-handed material substrate 2011 ,		1
21	Sensitivity enhancement in optical waveguide sensors using metamaterials. <i>Applied Physics A: Materials Science and Processing</i> , 2011 , 103, 611-614	2.6	11
20	Development and construction of rotating polarizer analyzer ellipsometer. <i>Optics and Lasers in Engineering</i> , 2011 , 49, 507-513	4.6	17
19	Ellipsometry of anisotropic materials: A new efficient polynomial approach. <i>Optik</i> , 2011 , 122, 666-670	2.5	6
18	Spectroscopic ellipsometry time study of low-temperature plasma-polymerized plain trimethylsilane thin films deposited on silicon. <i>Physica Scripta</i> , 2011 , 84, 045302	2.6	8

17	An Improvement of Scanning Ellipsometer by Rotating a Polarizer and an Analyzer at a Speed Ratio of 1:3. <i>International Journal of Optomechatronics</i> , 2011 , 5, 51-67	3.5	11
16	Aging of Oxygen-Treated Trimethylsilane Plasma-Polymerized Films Using Spectroscopic Ellipsometry. <i>Journal of Atomic, Molecular, and Optical Physics</i> , 2011 , 2011, 1-6		4
15	A reverse symmetry optical waveguide sensor using a plasma substrate. <i>Journal of Optics (United Kingdom)</i> , 2011 , 13, 075701	1.7	14
14	Four-Layer Slab Waveguide Sensors Supported with Left Handed Materials. <i>Sensor Letters</i> , 2011 , 9, 1823-1829	1.9	9
13	Thin Film Characterization Using Rotating Polarizer Analyzer Ellipsometer with a Speed Ratio 1:3. <i>Journal of Electromagnetic Analysis and Applications</i> , 2011 , 03, 351-358	0.3	4
12	A Fourier Ellipsometer Using Rotating Polarizer and Analyzer at a Speed Ratio 1 : 1. <i>Journal of Sensors</i> , 2010 , 2010, 1-7	2	6
11	Nonlinear planar asymmetrical optical waveguides for sensing applications. <i>Optik</i> , 2010 , 121, 860-865	2.5	18
10	Rotating polarizer-analyzer scanning ellipsometer. <i>Thin Solid Films</i> , 2010 , 518, 5610-5614	2.2	18
9	Enhancement of sensitivity in optical waveguide sensors using left-handed materials. <i>Optik</i> , 2009 , 120, 504-508	2.5	39
8	Theoretical analysis of TM nonlinear asymmetrical waveguide optical sensors. <i>Sensors and Actuators A: Physical</i> , 2008 , 147, 137-141	3.9	14
7	NONLINEAR OPTICAL WAVEGUIDE STRUCTURE FOR SENSOR APPLICATION: TM CASE. <i>International Journal of Modern Physics B</i> , 2007 , 21, 5075-5089	1.1	5
6	Analysis of the Sensitivity of Self-focused Nonlinear Optical Evanescent Waveguide Sensors. <i>International Journal of Optomechatronics</i> , 2007 , 1, 284-296	3.5	15
5	A New Matrix Formulation for One-Dimensional Scattering in Dirac Comb (Electromagnetic Waves Approach). <i>Physica Scripta</i> , 2003 , 67, 147-152	2.6	2
4	Investigation of bandgap properties in one-dimensional binary superconductor dielectric photonic crystal: TE case. <i>Indian Journal of Physics</i> , 1	1.4	7
3	Dispersion curves of a slab waveguide with a nonlinear covering medium and an exponential graded-index thin film (TM case). <i>Journal of the Optical Society of America B: Optical Physics</i> ,	1.7	1
2	Ultra-High-Sensitive Sensor Based on Surface Plasmon Resonance Structure Having Si and Graphene Layers for the Detection of Chikungunya Virus. <i>Plasmonics</i> , 1	2.4	1
1	An exact solution of a slab waveguide dispersion relation with a linear graded-index guiding layer (TM case). <i>Microsystem Technologies</i> , 1	1.7	0