Shobhitkumar Patel

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#	Paper	IF	Citations
110	5G technology of mobile communication: A survey 2013 ,		114
109	Metasurface based broadband solar absorber. Optical Materials, 2019, 89, 34-41	3.3	38
108	Graphene-based highly efficient and broadband solar absorber. <i>Optical Materials</i> , 2019 , 96, 109330	3.3	37
107	Broadband metasurface solar absorber in the visible and near-infrared region. <i>Materials Research Express</i> , 2019 , 6, 086213	1.7	28
106	Broadband compact microstrip patch antenna design loaded by multiple split ring resonator superstrate and substrate. <i>Waves in Random and Complex Media</i> , 2017 , 27, 92-102	1.9	27
105	Numerical investigation of graphene-based efficient and broadband metasurface for terahertz solar absorber. <i>Journal of Materials Science</i> , 2020 , 55, 3462-3469	4.3	27
104	Graphene based tunable broadband far-infrared absorber. <i>Superlattices and Microstructures</i> , 2018 , 124, 113-120	2.8	26
103	Design of graphene metasurface based sensitive infrared biosensor. <i>Sensors and Actuators A: Physical</i> , 2020 , 301, 111767	3.9	25
102	Graphene-based tunable near-infrared absorber. <i>Microwave and Optical Technology Letters</i> , 2019 , 61, 1161-1165	1.2	23
101	Plasmonic nanoantennas: enhancing light-matter interactions at the nanoscale. <i>EPJ Applied Metamaterials</i> , 2015 , 2, 4	0.8	23
100	Investigation on radiation improvement of corner truncated triband square microstrip patch antenna with double negative material. <i>Journal of Electromagnetic Waves and Applications</i> , 2013 , 27, 819-833	1.3	23
99	Graphene-silicon hybrid chirped-superstructure bragg gratings for far infrared frequency. <i>Materials Research Express</i> , 2019 , 6, 065606	1.7	22
98	Broadband and efficient graphene solar absorber using periodical array of C-shaped metasurface. <i>Optical and Quantum Electronics</i> , 2020 , 52, 1	2.4	22
97	Graphene-Based Highly Sensitive Refractive Index Biosensors Using C-Shaped Metasurface. <i>IEEE Sensors Journal</i> , 2020 , 20, 6359-6366	4	21
96	Meandered multiband metamaterial square microstrip patch antenna design. <i>Waves in Random and Complex Media</i> , 2012 , 22, 475-487	1.9	20
95	Graphene based highly sensitive refractive index sensor using double split ring resonator metasurface. <i>Optical and Quantum Electronics</i> , 2022 , 54, 1	2.4	20
94	Pattern controlled and frequency tunable microstrip antenna loaded with multiple split ring resonators. <i>IET Microwaves, Antennas and Propagation</i> , 2018 , 12, 390-394	1.6	19

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93	Graphene-based tunable reflector superstructure grating. <i>Applied Physics A: Materials Science and Processing</i> , 2019 , 125, 1	2.6	19	
92	Numerical investigation of wideband L-shaped metasurface based solar absorber for visible and ultraviolet region. <i>Physica B: Condensed Matter</i> , 2021 , 601, 412503	2.8	19	
91	High gain multiband and frequency reconfigurable metamaterial superstrate microstrip patch antenna for C/X/Ku-band wireless network applications. <i>Wireless Networks</i> , 2021 , 27, 2131-2146	2.5	19	
90	Tunable graphene-silica hybrid metasurface for far-infrared frequency. <i>Optical Materials</i> , 2019 , 91, 155	-1 <i>3</i> .9	18	
89	Wideband graphene-based near-infrared solar absorber using C-shaped rectangular sawtooth metasurface. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2021 , 126, 114493	3	18	
88	Broadband graphene-based metasurface solar absorber. <i>Microwave and Optical Technology Letters</i> , 2020 , 62, 1366-1373	1.2	17	
87	Enhanced bandwidth and gain of compact microstrip antennas loaded with multiple corrugated split ring resonators. <i>Journal of Electromagnetic Waves and Applications</i> , 2016 , 30, 945-961	1.3	17	
86	Frequency-reconfigurable and high-gain metamaterial microstrip-radiating structure. Waves in Random and Complex Media, 2019 , 29, 523-539	1.9	17	
85	Sensitivity Analysis of Metasurface Array-Based Refractive Index Biosensors. <i>IEEE Sensors Journal</i> , 2021 , 21, 1470-1477	4	16	
84	Graphene-based tunable infrared multi band absorber. <i>Optics Communications</i> , 2020 , 474, 126109	2	15	
83	Numerical investigation of gold metasurface based broadband near-infrared and near-visible solar absorber. <i>Physica B: Condensed Matter</i> , 2020 , 591, 412248	2.8	15	
82	Highly Sensitive Graphene-Based Refractive Index Biosensor Using Gold Metasurface Array. <i>IEEE Photonics Technology Letters</i> , 2020 , 32, 681-684	2.2	15	
81	Comparative analysis of metasurface array-based solar absorber for visible region. <i>Optical and Quantum Electronics</i> , 2021 , 53, 1	2.4	15	
80	Directive and tunable graphene based optical leaky wave radiating structure. <i>Materials Research Express</i> , 2019 , 6, 055607	1.7	15	
79	Graphene-based directive optical leaky wave antenna. <i>Microwave and Optical Technology Letters</i> , 2019 , 61, 153-157	1.2	15	
78	Metamaterial superstrate-loaded meandered microstrip-based radiating structure for bandwidth enhancement. <i>Journal of Modern Optics</i> , 2014 , 61, 923-930	1.1	14	
77	Broadband metamaterial-based near-infrared absorber using an array of uniformly placed gold resonators. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2020 , 37, 2163	1.7	14	
76	Size reduction in microstrip based meandered radiating structure using artificial substrate. International Journal of Applied Electromagnetics and Mechanics, 2013, 41, 207-216	0.4	13	

75	Graphene based tunable grating structure. Materials Research Express, 2019, 6, 025602	1.7	13
74	High gain and frequency reconfigurable copper and liquid metamaterial tooth based microstrip patch antenna. <i>AEU - International Journal of Electronics and Communications</i> , 2021 , 137, 153799	2.8	13
73	Review on Graphene-based Absorbers for Infrared to Ultraviolet Frequencies 2021 , 5, 214		13
72	One-dimensional ring mirror-defect photonic crystal for detection of mycobacterium tuberculosis bacteria. <i>Optik</i> , 2020 , 219, 165097	2.5	12
71	Graphene-Based Plasmonic Absorber for Biosensing Applications Using Gold Split Ring Resonator Metasurfaces. <i>Journal of Lightwave Technology</i> , 2021 , 39, 5617-5624	4	12
70	Numerical investigation of liquid metamaterial-based superstrate microstrip radiating structure. <i>Physica B: Condensed Matter</i> , 2020 , 585, 412095	2.8	11
69	Numerical analysis of polarization-insensitive squared spiral-shaped graphene metasurface with negative refractive index. <i>Applied Physics B: Lasers and Optics</i> , 2020 , 126, 1	1.9	11
68	Tunable infrared metamaterial-based biosensor for detection of hemoglobin and urine using phase change material. <i>Scientific Reports</i> , 2021 , 11, 7101	4.9	11
67	Ultra-Wideband, Polarization-Independent, Wide-Angle Multilayer Swastika-Shaped Metamaterial Solar Energy Absorber with Absorption Prediction using Machine Learning. <i>Advanced Theory and Simulations</i> ,2100604	3.5	11
66	Polarization insensitive graphene-based tunable frequency selective surface for far-infrared frequency spectrum. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020 , 120, 114049	3	10
65	Design, analysis and characterization of four port multiple-input-multiple-output UWB-X band antenna with band rejection ability for wireless network applications. <i>Wireless Networks</i> , 2020 , 26, 4287	7 -2 4 5 02	10
64	Design of truncated microstrip based radiating structure loaded by split ring resonator. International Journal of Applied Electromagnetics and Mechanics, 2013, 42, 249-258	0.4	10
63	Triband Microstrip B ased Radiating Structure Design using Split Ring Resonator and Complementary Split Ring Resonator. <i>Microwave and Optical Technology Letters</i> , 2013 , 55, 2219-2222	1.2	10
62	E-shape microstrip patch antenna design for GPS application 2011 ,		10
61	Dualband parasitic metamaterial square microstrip patch antenna design. <i>International Journal of Ultra Wideband Communications and Systems</i> , 2012 , 2, 225	О	10
60	Metasurface-based solar absorber with absorption prediction using machine learning. <i>Optical Materials</i> , 2022 , 124, 112049	3.3	10
59	Broadband liquid metamaterial radome design. Waves in Random and Complex Media, 2020, 30, 328-339	1.9	10
58	An ultra-compact four-port 4 ^{III} 4 superwideband MIMO antenna including mitigation of dual notched bands characteristics designed for wireless network applications. <i>AEU - International Journal of Electronics and Communications</i> , 2020 , 123, 153332	2.8	9

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57	Complementary split ring resonator metamaterial to achieve multifrequency operation in microstrip-based radiating structure design. <i>Journal of Modern Optics</i> , 2014 , 61, 249-256	1.1	9
56	Multiband metamaterial truncated square microstrip-based radiating structure design. <i>Waves in Random and Complex Media</i> , 2014 , 24, 19-34	1.9	9
55	Numerical investigation of tunable metasurface of graphene split-ring resonator for terahertz frequency with reflection controlling property. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020 , 118, 113910	3	9
54	Encoding and Tuning of THz Metasurface-Based Refractive Index Sensor With Behavior Prediction Using XGBoost Regressor. <i>IEEE Access</i> , 2022 , 10, 24797-24814	3.5	9
53	Graphene-based metasurface solar absorber design with absorption prediction using machine learning <i>Scientific Reports</i> , 2022 , 12, 2609	4.9	9
52	Liquid metamaterial based microstrip antenna. <i>Microwave and Optical Technology Letters</i> , 2018 , 60, 318	3- <u>32</u> 2	8
51	Design of optical leaky wave antenna with circular and diamond Si perturbations for enhancing its performance. <i>Microwave and Optical Technology Letters</i> , 2018 , 60, 1395-1398	1.2	8
50	Liquid metamaterial based radome design. <i>Microwave and Optical Technology Letters</i> , 2018 , 60, 2303-23	3 <u>09</u> 2	8
49	Integrated bluetooth/LTE2600 superwideband monopole antenna with triple notched (WiMAX/WLAN/DSS) band characteristics for UWB/X/Ku band wireless network applications. <i>Wireless Networks</i> , 2020 , 26, 2845-2855	2.5	8
48	High sensitivity refractive index sensor in long-range surface plasmon resonance based on side polished optical fiber. <i>Optical Fiber Technology</i> , 2021 , 61, 102449	2.4	8
47	Tunable and highly sensitive graphene-based biosensor with circle/split ring resonator metasurface for sensing hemoglobin/urine biomolecules. <i>Physica B: Condensed Matter</i> , 2022 , 624, 413399	2.8	8
46	Multi-layered Graphene Silica-Based Tunable Absorber for Infrared Wavelength Based on Circuit Theory Approach. <i>Plasmonics</i> , 2020 , 15, 1767-1779	2.4	7
45	Design of S-shaped multiband microstrip patch antenna 2012 ,		7
44	Design of Microstrip Meandered Patch Antenna for Mobile Communication. <i>Communications in Computer and Information Science</i> , 2011 , 184-189	0.3	7
43	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
42	Multilayer liquid metamaterial radome design for performance enhancement of microstrip patch antenna. <i>Microwave and Optical Technology Letters</i> , 2018 , 60, 600-605	1.2	6
41	Highly directive optical radiating structure with circular and diamond shape Si perturbations. <i>Materials Research Express</i> , 2019 , 6, 096202	1.7	6
40	Square-tooth split ring resonator has novel metamaterial for bandwidth and radiation improvement in microstrip-based radiating structure design. <i>Journal of Modern Optics</i> , 2013 , 60, 1821-1829	1.1	6

39	Design and fabrication of multiband reconfigurable copper and liquid multiple complementary split-ring resonator based patch antenna. <i>Waves in Random and Complex Media</i> ,1-24	1.9	6	
38	Liquid metasurface-based periodically stacked radome design. <i>Microwave and Optical Technology Letters</i> , 2018 , 60, 2456-2462	1.2	6	
37	Multiband Jerusalem cross-shaped angle insensitive metasurface absorber for X-band application. Journal of Electromagnetic Waves and Applications,1-13	1.3	6	
36	Encrypted and tunable graphene-based metasurface refractive index sensor. <i>Microwave and Optical Technology Letters</i> ,	1.2	6	
35	Graphene-Based Refractive Index Sensor Using Machine Learning for Detection of Mycobacterium Tuberculosis Bacteria <i>IEEE Transactions on Nanobioscience</i> , 2022 , PP,	3.4	6	
34	Optimization of Metamaterial-Based Solar Energy Absorber for Enhancing Solar Thermal Energy Conversion Using Artificial Intelligence. <i>Advanced Theory and Simulations</i> ,2200139	3.5	6	
33	Tunable high-gain and multiband microstrip antenna based on liquid/copper split-ring resonator superstrates for C/X band communication. <i>Physica B: Condensed Matter</i> , 2021 , 618, 413203	2.8	5	
32	Broadband polarization-insensitive Jerusalem-shaped metasurface absorber based on phase-change material for the visible region. <i>Physica B: Condensed Matter</i> , 2022 , 624, 413440	2.8	5	
31	Graphene-based multilayer metasurface solar absorber with parameter optimization and behavior prediction using Long Short-Term Memory model. <i>Renewable Energy</i> , 2022 , 191, 47-58	8.1	5	
30	Split-ring resonator metamaterial-loaded parallel-plate structure for performance enhancement. Journal of Modern Optics, 2014 , 61, 1282-1289	1.1	4	
29	Surface plasmon resonance biosensor based on graphene layer for the detection of waterborne bacteria <i>Journal of Biophotonics</i> , 2022 , e202200001	3.1	4	
28	Highly sensitive and tunable refractive index biosensor based on phase change material. <i>Physica B: Condensed Matter</i> , 2021 , 622, 413357	2.8	4	
27	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	
26	Nonlinear studies of graphene oxide and its application to moisture detection in transformer oil using D-shaped optical fibre. <i>Journal of Modern Optics</i> , 2020 , 67, 619-627	1.1	3	
25	Multiband meandered miniaturized patch antenna loaded with split ring resonator and thin wire arrays. <i>Microwave and Optical Technology Letters</i> , 2014 , 56, 306-310	1.2	3	
24	Numerical simulation of a highly directional optical leaky wave antenna using diamond-shaped graphene perturbations. <i>Applied Optics</i> , 2020 , 59, 2225-2230	1.7	3	
23	Graphene-based c-shaped metasurface broadband solar absorber 2020,		3	
22	Numerical investigation of graphene-based metamaterial microstrip radiating structure. <i>Materials Research Express</i> , 2020 , 7, 016203	1.7	3	

21	Exploring the optical properties of exposed-core-based photonic-crystal fibers. <i>Journal of Computational Electronics</i> , 2021 , 20, 1260-1269	1.8	3
20	High gain metamaterial radome design for microstrip based radiating structure. <i>Materials Research Express</i> , 2019 , 6, 025803	1.7	3
19	Low-cost, multiband, high gain and reconfigurable microstrip radiating structure using PIN diode for 5G/Wi-MAX/WLAN applications. <i>Physica B: Condensed Matter</i> , 2022 , 413972	2.8	3
18	Design of meandered H-shaped square microstrip patch antenna 2012 ,		2
17	Photocatalytic Application of Two-dimensional Materials-based Heterostructure Based on Molybdenum and Tungsten Disulfides and Gallium Nitride: A Density-Functional Theory Study. <i>Materials Today Communications</i> , 2020 , 25, 101646	2.5	2
16	Deep learning inspired routing in ICN using Monte Carlo Tree Search algorithm. <i>Journal of Parallel and Distributed Computing</i> , 2021 , 150, 104-111	4.4	2
15	Numerical investigation of dual guided elliptical ring core few-mode fiber for space division multiplexing applications. <i>Optik</i> , 2021 , 228, 166111	2.5	2
14	Nanobeam extraction with periodic optical grating staircase structure. <i>Microwave and Optical Technology Letters</i> , 2018 , 60, 2148-2153	1.2	1
13	Broadband and high gain multiband patch antenna designs using corrugated split ring resonators 2017 ,		1
12	Elliptic low pass filter design using DGS slot for microstrip lines 2013,		1
11	Wideband Miniaturized Patch Antenna Design and Comparative Analysis. <i>Communications in Computer and Information Science</i> , 2011 , 111-116	0.3	1
10	E-shaped patch antenna analysis for multiple applications 2011 ,		1
9	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
8	Numerical investigation of tunable multistacked metamaterial-based graphene grating. <i>Microwave and Optical Technology Letters</i> , 2021 , 63, 1106-1111	1.2	1
7	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
6	Ultra-broadband and polarization-insensitive metasurface absorber with behavior prediction using machine learning. <i>AEJ - Alexandria Engineering Journal</i> , 2022 , 61, 10379-10393	6.1	1
5	Graphene-Based Tunable Broadband Polarizer for Infrared Frequency. <i>Brazilian Journal of Physics</i> , 2022 , 52, 1	1.2	О
4	Multi-layered graphene silica-metasurface based infrared polarizer structure. <i>Optical and Quantum Electronics</i> , 2022 , 54, 1	2.4	О

3	Exploration of multi-metallic thin layer/MgF2 in side-polished optical fiber as long-range surface plasmons (LRSPs) alcohol sensor. <i>Optical and Quantum Electronics</i> , 2022 , 54, 1	2.4	O
2	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	O
1	SVM-based Analysis for Predicting Success Rate of Interest Packets in Information Centric Networks. <i>Applied Artificial Intelligence</i> ,1-22	2.3	О