Zohreh Vafapour

List of Publications by Year
in descending order

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28 papers	1,342 citations	279798 23 h-index	526287 27 g-index
28 all docs	28 docs citations	28 times ranked	718 citing authors

#	Article	IF	Citations
1	Tunable localized surface plasmon graphene metasurface for multiband superabsorption and terahertz sensing. Carbon, 2020, 158, 559-567.	10.3	218
2	Polarization-Independent Perfect Optical Metamaterial Absorber as a Glucose Sensor in Food Industry Applications. IEEE Transactions on Nanobioscience, 2019, 18, 622-627.	3.3	107
3	Sensing Avian Influenza Viruses Using Terahertz Metamaterial Reflector. IEEE Sensors Journal, 2019, 19, 5161-5166.	4.7	90
4	Water-Based Terahertz Metamaterial for Skin Cancer Detection Application. IEEE Sensors Journal, 2019, 19, 1519-1524.	4.7	80
5	The potential of terahertz sensing for cancer diagnosis. Heliyon, 2020, 6, e05623.	3.2	72
6	Graphene-based mid-infrared biosensor. Journal of the Optical Society of America B: Optical Physics, 2017, 34, 2586.	2.1	56
7	Colon Cancer Detection by Designing and Analytical Evaluation of a Water-Based THz Metamaterial Perfect Absorber. IEEE Sensors Journal, 2021, 21, 19307-19313.	4.7	54
8	Semiconductor-based far-infrared biosensor by optical control of light propagation using THz metamaterial. Journal of the Optical Society of America B: Optical Physics, 2018, 35, 1192.	2.1	53
9	Near infrared biosensor based on Classical Electromagnetically Induced Reflectance (Cl-EIR) in a planar complementary metamaterial. Optics Communications, 2017, 387, 1-11.	2.1	52
10	Thermo Optical Switching and Sensing Applications of an Infrared Metamaterial. IEEE Sensors Journal, 2020, 20, 3235-3241.	4.7	47
11	The Potential of Refractive Index Nanobiosensing Using a Multi-Band Optically Tuned Perfect Light Metamaterial Absorber. IEEE Sensors Journal, 2021, 21, 13786-13793.	4.7	46
12	Slowing down light using terahertz semiconductor metamaterial for dual-band thermally tunable modulator applications. Applied Optics, 2018, 57, 722.	1.8	44
13	Solute concentration sensing in two aqueous solution using an optical metamaterial sensor. Journal of Luminescence, 2021, 230, 117734.	3.1	44
14	Large group delay in a microwave metamaterial analog of electromagnetically induced reflectance. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2018, 35, 417.	1.5	43
15	Achieving a High Q-Factor and Tunable Slow-Light via Classical Electromagnetically Induced Transparency (Cl-EIT) in Metamaterials. Plasmonics, 2017, 12, 479-488.	3.4	40
16	Sensing, Switching and Modulating Applications of a Superconducting THz Metamaterial. IEEE Sensors Journal, 2021, 21, 15187-15195.	4.7	35
17	New Regime of Plasmonically Induced Transparency. Plasmonics, 2015, 10, 1809-1815.	3.4	31
18	Optically Tunable Triple-Band Perfect Absorber for Nonlinear Optical Liquids Sensing. IEEE Sensors Journal, 2020, 20, 10130-10137.	4.7	31

#	Article	IF	Citations
19	New Approach of Plasmonically Induced Reflectance in a Planar Metamaterial for Plasmonic Sensing Applications. Plasmonics, 2016, 11, 609-618.	3.4	28
20	Subwavelength Micro-Antenna for Achieving Slow Light at Microwave Wavelengths via Electromagnetically Induced Transparency in 2D Metamaterials. Plasmonics, 2017, 12, 1343-1352.	3.4	27
21	Tunable Slow Light in Graphene Metamaterial in a Broad Terahertz Range. Plasmonics, 2018, 13, 63-70.	3.4	27
22	Thermo-optical applications of a novel terahertz semiconductor metamaterial design. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 35.	2.1	26
23	Disappearance of Plasmonically Induced Reflectance by Breaking Symmetry in Metamaterials. Plasmonics, 2017, 12, 1331-1342.	3.4	25
24	Breast cancer detection capability of a tunable perfect semiconductor absorber: analytical and numerical evaluation. Optical Engineering, 2021, 60, .	1.0	21
25	Cost-Effective Bullâ€™s Eye Aperture-Style Multi-Band Metamaterial Absorber at Sub-THz Band: Design, Numerical Analysis, and Physical Interpretation. Sensors, 2022, 22, 2892.	3.8	20
26	Slow light modulator using semiconductor metamaterial. , 2018, , .		19
27	Time, space, and spectral multiplexing for radiation balanced operation of semiconductor lasers. Optics Express, 2018, 26, 24124.	3.4	3
28	Bandgap engineering and prospects for radiation-balanced vertical-external-cavity surface-emitting semiconductor lasers. Optics Express, 2018, 26, 12985.	3.4	3