

# Anna C Tasolamprou

## List of Publications by Year in descending order

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Version: 2024-02-01

49  
papers

1,232  
citations

361296

20  
h-index

477173

29  
g-index

50  
all docs

50  
docs citations

50  
times ranked

1135  
citing authors

#	ARTICLE	IF	CITATIONS
1	Toward Intelligent Metasurfaces: The Progress from Globally Tunable Metasurfaces to Software-Defined Metasurfaces with an Embedded Network of Controllers. <i>Advanced Optical Materials</i> , 2020, 8, 2000783.	3.6	145
2	Experimental Demonstration of Ultrafast THz Modulation in a Graphene-Based Thin Film Absorber through Negative Photoinduced Conductivity. <i>ACS Photonics</i> , 2019, 6, 720-727.	3.2	128
3	Intelligent Metasurfaces with Continuously Tunable Local Surface Impedance for Multiple Reconfigurable Functions. <i>Physical Review Applied</i> , 2019, 11, .	1.5	108
4	A Multi-Functional Reconfigurable Metasurface: Electromagnetic Design Accounting for Fabrication Aspects. <i>IEEE Transactions on Antennas and Propagation</i> , 2021, 69, 1440-1454.	3.1	71
5	Pairing Toroidal and Magnetic Dipole Resonances in Elliptic Dielectric Rod Metasurfaces for Reconfigurable Wavefront Manipulation in Reflection. <i>Advanced Optical Materials</i> , 2018, 6, 1800633.	3.6	65
6	Toroidal eigenmodes in all-dielectric metamolecules. <i>Physical Review B</i> , 2016, 94, .	1.1	58
7	Programmable Metasurfaces: State of the Art and Prospects. , 2018, , .		49
8	Passive radiative cooling and other photonic approaches for the temperature control of photovoltaics: a comparative study for crystalline silicon-based architectures. <i>Optics Express</i> , 2020, 28, 18548.	1.7	45
9	Exploration of Intercell Wireless Millimeter-Wave Communication in the Landscape of Intelligent Metasurfaces. <i>IEEE Access</i> , 2019, 7, 122931-122948.	2.6	41
10	Scalability Analysis of Programmable Metasurfaces for Beam Steering. <i>IEEE Access</i> , 2020, 8, 105320-105334.	2.6	36
11	Liquid crystal-based dielectric loaded surface plasmon polariton optical switches. <i>Journal of Applied Physics</i> , 2011, 110, 093102.	1.1	31
12	Combined nano and micro structuring for enhanced radiative cooling and efficiency of photovoltaic cells. <i>Scientific Reports</i> , 2021, 11, 11552.	1.6	30
13	Intercell Wireless Communication in Software-defined Metasurfaces. , 2018, , .		28
14	Liquid-crystal tunable waveguides for integrated plasmonic components. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2013, 11, 73-84.	1.0	26
15	Frequency splitter based on the directional emission from surface modes in dielectric photonic crystal structures. <i>Optics Express</i> , 2015, 23, 13972.	1.7	24
16	Near-Infrared and Optical Beam Steering and Frequency Splitting in Air-Holes-in-Silicon Inverse Photonic Crystals. <i>ACS Photonics</i> , 2017, 4, 2782-2788.	3.2	24
17	Toward the Realization of a Programmable Metasurface Absorber Enabled by Custom Integrated Circuit Technology. <i>IEEE Access</i> , 2020, 8, 92986-92998.	2.6	24
18	Laser induced periodic surface structures as polarizing optical elements. <i>Applied Surface Science</i> , 2021, 541, 148470.	3.1	24

#	ARTICLE	IF	CITATIONS
19	Experimentally excellent beaming in a two-layer dielectric structure. Optics Express, 2014, 22, 23147.	1.7	23
20	Flexible 3D Printed Conductive Metamaterial Units for Electromagnetic Applications in Microwaves. Materials, 2020, 13, 3879.	1.3	23
21	Submicron Organic-Inorganic Hybrid Radiative Cooling Coatings for Stable, Ultrathin, and Lightweight Solar Cells. ACS Photonics, 2022, 9, 1327-1337.	3.2	22
22	Theoretical and experimental studies of hyperreflective polymer-network cholesteric liquid crystal structures with helicity inversion. Optics Communications, 2009, 282, 903-907.	1.0	21
23	Computational techniques for the analysis and design of dielectric-loaded plasmonic circuitry. Optical and Quantum Electronics, 2011, 42, 541-555.	1.5	21
24	Joint Compressed Sensing and Manipulation of Wireless Emissions with Intelligent Surfaces. , 2019, , .		19
25	Tunable optical properties of silicon-on-insulator photonic crystal slab structures. Journal of the European Optical Society-Rapid Publications, 0, 4, .	0.9	16
26	Anapole Tolerance to Dissipation Losses in Thermally Tunable Water-Based Metasurfaces. Physical Review Applied, 2021, 15, .	1.5	16
27	Software-Defined Metasurface Paradigm: Concept, Challenges, Prospects. , 2018, , .		14
28	Dynamic anapole in metasurfaces made of sculptured cylinders. Physical Review B, 2019, 100, .	1.1	14
29	ABSense. , 2019, , .		14
30	Multiwideband Terahertz Communications Via Tunable Graphene-Based Metasurfaces in 6G Networks: Graphene Enables Ultimate Multiwideband THz Wavefront Control. IEEE Vehicular Technology Magazine, 2022, 17, 16-25.	2.8	14
31	Local density of optical states in the three-dimensional band gap of a finite photonic crystal. Physical Review B, 2020, 101, .	1.1	13
32	Surface States on Photonic Crystals As Hybrid Dielectric Metasurface Bound States of the Termination Layer. ACS Photonics, 2020, 7, 2842-2849.	3.2	9
33	Ultraviolet radiation impact on the efficiency of commercial crystalline silicon-based photovoltaics: a theoretical thermal-electrical study in realistic device architectures. OSA Continuum, 2020, 3, 1436.	1.8	8
34	Chiral Topological Surface States on a Finite Square Photonic Crystal Bounded by Air. Physical Review Applied, 2021, 16, .	1.5	8
35	Tunable Perfect Anomalous Reflection in Metasurfaces with Capacitive Lumped Elements. , 2018, , .		7
36	Polaritonic cylinders as multifunctional metamaterials: Single scattering and effective medium description. Physical Review B, 2020, 102, .	1.1	5

#	ARTICLE	IF	CITATIONS
37	High Frequency Substrate Technologies for the Realisation of Software Programmable Metasurfaces on PCB Hardware Platforms with Integrated Controller Nodes. , 2019, , .		4
38	Toroidal Multipoles in Metamaterials. , 2020, , 237-278.		2
39	Experimental Observation of Ultrafast THz Absorption Modulation in a Graphene-Based Metasurface. , 2019, , .		1
40	Passive radiative cooling for the temperature and efficiency control of photovoltaics. , 2021, , .		1
41	THz polarization control with chiral and bianisotropic metamaterials and metasurfaces. , 2016, , .		0
42	Dielectric rod metasurfaces: Exploiting toroidal and magnetic dipole resonances. , 2017, , .		0
43	Electromagnetic Aspects of Practical Approaches to Realization of Intelligent Metasurfaces. , 2018, , .		0
44	Demonstration of Ultrafast THz Absorption Modulation in a Graphene-Based Thin Absorber. , 2019, , .		0
45	Graphene THz Metasurfaces with Photoinduced Modulation. , 2019, , .		0
46	Ultrafast THz Self-action Graphene Based Modulators. , 2021, , .		0
47	Passive radiative cooler for solar cellsâ€™ temperature and efficiency control. , 2021, , .		0
48	Observation of Ultrafast THz Self-actions in Graphene Based Modulators. , 2021, , .		0
49	Position dependence of local density of states in 3D band gap of a finite photonic crystal. , 2021, , .		0