

# Imad Agha

## List of Publications by Year in descending order

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37  
papers

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citations

687363

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docs citations

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times ranked

891  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Review of Germanium-Antimony-Telluride Phase Change Materials for Non-Volatile Memories and Optical Modulators. Applied Sciences (Switzerland), 2019, 9, 530.	2.5	143
2	Two-Photon Interference Using Background-Free Quantum Frequency Conversion of Single Photons Emitted by an InAs Quantum Dot. Physical Review Letters, 2012, 109, 147405.	7.8	113
3	Low-noise chip-based frequency conversion by four-wave-mixing Bragg scattering in SiN <sub>x</sub> waveguides. Optics Letters, 2012, 37, 2997.	3.3	50
4	Improving the performance of bright quantum dot single photon sources using temporal filtering via amplitude modulation. Scientific Reports, 2013, 3, 1397.	3.3	45
5	Polarization-dependent electromagnetic responses of ultrathin and highly flexible asymmetric terahertz metasurfaces. Optics Express, 2017, 25, 32540.	3.4	35
6	Polarization-selective modulation of supercavity resonances originating from bound states in the continuum. Communications Physics, 2020, 3, .	5.3	35
7	Improving the performance of Ge <sub>2</sub> Sb <sub>2</sub> Te <sub>5</sub> materials via nickel doping: Towards RF-compatible phase-change devices. Applied Physics Letters, 2018, 113, 171903.	3.3	34
8	A chip-scale, telecommunications-band frequency conversion interface for quantum emitters. Optics Express, 2013, 21, 21628.	3.4	31
9	Phase Change Dynamics and Two-Dimensional 4-Bit Memory in Ge <sub>2</sub> Sb <sub>2</sub> Te <sub>5</sub> via Telecom-Band Encoding. ACS Photonics, 2020, 7, 480-487.	6.6	25
10	Eigenmode hybridization enables lattice-induced transparency in symmetric terahertz metasurfaces for slow light applications. Optics Letters, 2019, 44, 2705.	3.3	18
11	All-optical switching via four-wave mixing Bragg scattering in a silicon platform. APL Photonics, 2017, 2, .	5.7	17
12	Tungsten-doped Ge <sub>2</sub> Sb <sub>2</sub> Te <sub>5</sub> phase change material for high-speed optical switching devices. Applied Physics Letters, 2020, 116, .	3.3	16
13	Spectral broadening and shaping of nanosecond pulses: toward shaping of single photons from quantum emitters. Optics Letters, 2014, 39, 5677.	3.3	13
14	SU-8 nanoimprint fabrication of wire-grid polarizers using deep-UV interference lithography. Optics Letters, 2015, 40, 4396.	3.3	12
15	Low control-power wavelength conversion on a silicon chip. Optics Letters, 2016, 41, 3651.	3.3	11
16	Power-Dependent Investigation of Photo-Response from GeSn-Based p-i-n Photodetector Operating at High Power Density. Materials, 2022, 15, 989.	2.9	11
17	Tunable angle-independent mid-infrared optical filters using GST-based micro resonator arrays. Optical Materials Express, 2022, 12, 1043.	3.0	7
18	Low-power optical logic gate in a silicon waveguide. , 2017, , .		4

#	ARTICLE	IF	CITATIONS
19	Theoretical investigation of quantum waveform shaping for single photon emitters. Optics Express, 2016, 24, 16687.	3.4	3
20	Unraveling delocalized electrons in metal induced gap states from second harmonics. Applied Physics Letters, 2017, 111, .	3.3	3
21	Wavelength and power dependence on multilevel behavior of phase change materials. AIP Advances, 2021, 11, 085327.	1.3	3
22	Photonic Crystal for Beam Tuning Application. , 2020, , .		2
23	Non-destructive optical loss characterization using designed scattering features. , 2017, , .		2
24	Generation of four-dimensional hyperentangled NOON states and beyond with photonic orbital angular momentum and detection-basis control. Physical Review A, 2022, 105, .	2.5	2
25	Independent measurement of phase and amplitude modulation in phase change material-based devices. Optical Materials Express, 2022, 12, 2899.	3.0	2
26	Room temperature emission spectroscopy of GeSn waveguides under optical pumping. AIP Advances, 2022, 12, .	1.3	2
27	Bio-inspired spatially variant photonic crystals for self-collimation and beam-steering applications in the near-infrared spectrum. Scientific Reports, 2021, 11, 18767.	3.3	1
28	All-optical switch based on 4-wave mixing in Si waveguides. , 2017, , .		0
29	Silicon-Based All-Optical Logic Gates and Memories for Low-Latency, High-Speed Cryptography. , 2018, , .		0
30	Thermally Tunable Far-Infrared Metasurfaces Enabled by Ge <sub>2</sub> Sb <sub>2</sub> Te <sub>5</sub> Phase-Change Material. , 2018, , .		0
31	Nanophotonic Devices and Quantum Frequency Conversion. , 2013, , .		0
32	Erasing spectral distinguishability in quantum dot based single photon sources using quantum frequency conversion. , 2013, , .		0
33	Modulation of Electromagnetically Induced Transparency in Toroidal Resonance Terahertz Metasurfaces. , 2018, , .		0
34	Optical and electrical properties of phase change materials for high-speed optoelectronics. , 2019, , .		0
35	Polarization Dependence of Friedric-Wintgen Bound States in the Continuum from THz Metasurfaces. , 2020, , .		0
36	Pixel level demonstration of phase change material based spatial light modulation. , 2020, , .		0

#	ARTICLE	IF	CITATIONS
37	Waveform-Agile Frequency Doubled Laser System for Optical Switching and Characterization of Phase Change Materials at Near-IR Wavelengths. , 2020, , .		0