

# Sahand Mahmoodian

## List of Publications by Year in descending order

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24  
papers

3,107  
citations

623188

14  
h-index

676716

22  
g-index

24  
all docs

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docs citations

24  
times ranked

3148  
citing authors

#	ARTICLE	IF	CITATIONS
1	Unraveling Two-Photon Entanglement via the Squeezing Spectrum of Light Traveling through Nanofiber-Coupled Atoms. <i>Physical Review Letters</i> , 2021, 127, 123602.	2.9	14
2	Dynamics of Many-Body Photon Bound States in Chiral Waveguide QED. <i>Physical Review X</i> , 2020, 10, .	2.8	71
3	Correlating photons using the collective nonlinear response of atoms weakly coupled to an optical mode. <i>Nature Photonics</i> , 2020, 14, 719-722.	15.6	64
4	Chiral Light-Matter Interaction beyond the Rotating-Wave Approximation. <i>Physical Review Letters</i> , 2019, 123, 133603.	2.9	11
5	Spin-photon interface and spin-controlled photon switching in a nanobeam waveguide. <i>Nature Nanotechnology</i> , 2018, 13, 398-403.	15.6	85
6	Strongly Correlated Photon Transport in Waveguide Quantum Electrodynamics with Weakly Coupled Emitters. <i>Physical Review Letters</i> , 2018, 121, 143601.	2.9	67
7	Spatially Adiabatic Frequency Conversion in Optoelectromechanical Arrays. <i>Physical Review Letters</i> , 2018, 121, 110506.	2.9	17
8	Numerical modeling of the coupling efficiency of single quantum emitters in photonic-crystal waveguides. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2018, 35, 514.	0.9	27
9	Chiral quantum optics. <i>Nature</i> , 2017, 541, 473-480.	13.7	1,007
10	Engineering chiral light-matter interaction in photonic crystal waveguides with slow light. <i>Optical Materials Express</i> , 2017, 7, 43.	1.6	58
11	Quantum Networks with Chiral-Light-Matter Interaction in Waveguides. <i>Physical Review Letters</i> , 2016, 117, 240501.	2.9	93
12	Deterministic photon-emitter coupling in chiral photonic circuits. <i>Nature Nanotechnology</i> , 2015, 10, 775-778.	15.6	466
13	Photon Sorting, Efficient Bell Measurements, and a Deterministic Controlled- $Z$ Gate Using a Passive Two-Level Nonlinearity. <i>Physical Review Letters</i> , 2015, 114, 173603.	2.9	48
14	Interfacing single photons and single quantum dots with photonic nanostructures. <i>Reviews of Modern Physics</i> , 2015, 87, 347-400.	16.4	1,014
15	Waveguides arrays in hexagonal photonic crystals. , 2014, , .		0
16	Supermodes of hexagonal lattice waveguide arrays. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2012, 29, 1338.	0.9	1
17	First-principles method for high-Q photonic crystal cavity mode calculations. <i>Optics Express</i> , 2012, 20, 22763.	1.7	1
18	Double-heterostructure cavities: From theory to design. <i>Physical Review A</i> , 2012, 86, .	1.0	1

#	ARTICLE	IF	CITATIONS
19	Coupled waveguide modes in hexagonal photonic crystals. Optics Express, 2010, 18, 25346.	1.7	9
20	Paired modes of heterostructure cavities in photonic crystal waveguides with split band edges. Optics Express, 2010, 18, 25693.	1.7	7
21	Liquid crystal dynamics in a photonic crystal cavity created by selective microfluidic infiltration. Optics Express, 2010, 18, 27280.	1.7	21
22	Semi-analytical models for resonant states near photonic crystal band edges. , 2009, , .		0
23	Coated photonic bandgap fibres for low-index sensing applications: cutoff analysis. Optics Express, 2009, 17, 16306.	1.7	20
24	Modes of Shallow Photonic Crystal Waveguides: Semi-Analytic Treatment. Optics Express, 2009, 17, 19629.	1.7	5