

# Aaron C Hryciw

## List of Publications by Year in descending order

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Version: 2024-02-01

28  
papers

1,147  
citations

516710

16  
h-index

752698

20  
g-index

28  
all docs

28  
docs citations

28  
times ranked

1950  
citing authors

#	ARTICLE	IF	CITATIONS
1	A micromachining-based technology for enhancing germanium light emission via tensile strain. Nature Photonics, 2012, 6, 398-405.	31.4	190
2	Transient terahertz conductivity in photoexcited silicon nanocrystal films. Physical Review B, 2006, 73, .	3.2	139
3	High-Q/V Monolithic Diamond Microdisks Fabricated with Quasi-isotropic Etching. Nano Letters, 2015, 15, 5131-5136.	9.1	114
4	Dissipative and Dispersive Optomechanics in a Nanocavity Torque Sensor. Physical Review X, 2014, 4, .	8.9	104
5	Solving dielectric and plasmonic waveguide dispersion relations on a pocket calculator. Optics Express, 2009, 17, 24112.	3.4	103
6	Atomic Layer Deposition of Lead Sulfide Quantum Dots on Nanowire Surfaces. Nano Letters, 2011, 11, 934-940.	9.1	84
7	Electrifying plasmonics on silicon. Nature Materials, 2010, 9, 3-4.	27.5	73
8	Single-Crystal Diamond Nanobeam Waveguide Optomechanics. Physical Review X, 2015, 5, .	8.9	60
9	The microstructure of SiO thin films: from nanoclusters to nanocrystals. Philosophical Magazine, 2007, 87, 11-27.	1.6	47
10	Cavity optomechanics in gallium phosphide microdisks. Applied Physics Letters, 2014, 104, .	3.3	40
11	Nonlinear optomechanical paddle nanocavities. Optica, 2015, 2, 271.	9.3	35
12	Ultrafast terahertz conductivity of photoexcited nanocrystalline silicon. Journal of Materials Science: Materials in Electronics, 2007, 18, 447-452.	2.2	29
13	Plasmon-enhanced emission from optically-doped MOS light sources. Optics Express, 2009, 17, 185.	3.4	29
14	Tuning of nanocavity optomechanical coupling using a near-field fiber probe. Optica, 2015, 2, 491.	9.3	29
15	Thermo-optic tuning of erbium-doped amorphous silicon nitride microdisk resonators. Applied Physics Letters, 2011, 98, 041102.	3.3	19
16	Optical design of split-beam photonic crystal nanocavities. Optics Letters, 2013, 38, 1612.	3.3	19
17	Nanocluster sensitized erbium-doped silicon monoxide waveguides. Optics Express, 2006, 14, 12151.	3.4	10
18	Patterning of Complex, Nanometer-Scale Features in Wide-Area Gold Nanoplasmonic Structures Using Helium Focused Ion Beam Milling. ACS Applied Materials & Interfaces, 2021, 13, 43209-43220.	8.0	10

#	ARTICLE	IF	CITATIONS
19	Light emission from strained germanium. Nature Photonics, 2013, 7, 162-163.	31.4	8
20	Design and experimental demonstration of optomechanical paddle nanocavities. Applied Physics Letters, 2015, 107, 231107.	3.3	3
21	Photonic crystal paddle nanocavities for optomechanical torsion sensing. , 2012, , .		2
22	Probing ultrafast carrier dynamics in semiconductor nanostructures with terahertz pulses. , 2005, , .		0
23	Photonic crystal split-beam nanocavities for torsional optomechanics. Proceedings of SPIE, 2013, , .	0.8	0
24	Asterisk Metasurface at 193 THz. , 2018, , .		0
25	Optomechanical Nanostructures via Scalable Fabrication in Single-Crystal Diamond. , 2014, , .		0
26	Optomechanics in Gallium Phosphide Microdisks. , 2014, , .		0
27	Monolithic Single Crystal Diamond High-Q Optical Microcavities. , 2015, , .		0
28	Resonant Wavelength Conversion in Gallium Phosphide Nanostructures. , 2015, , .		0