

# Benjamin Dwir

## List of Publications by Year in descending order

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55  
papers

981  
citations

471509

17  
h-index

434195

31  
g-index

55  
all docs

55  
docs citations

55  
times ranked

870  
citing authors

#	ARTICLE	IF	CITATIONS
1	Polarization-entangled photons produced with high-symmetry site-controlled quantum dots. Nature Photonics, 2010, 4, 302-306.	31.4	156
2	Integration of site-controlled pyramidal quantum dots and photonic crystal membrane cavities. Applied Physics Letters, 2008, 92, .	3.3	89
3	Phonon-Mediated Coupling of $\text{InGaAs}$ Quantum Dots Excitons to Photonic Crystal Cavities. Physical Review Letters, 2011, 106, 227402.		85
4	Record Low Inhomogeneous Broadening of Site-Controlled Quantum Dots for Nanophotonics. Small, 2010, 6, 1268-1272.	10.0	77
5	Site-Controlled InGaAs Quantum Dots with Tunable Emission Energy. Small, 2009, 5, 938-943.	10.0	70
6	Dense uniform arrays of site-controlled quantum dots grown in inverted pyramids. Applied Physics Letters, 2004, 84, 2907-2909.	3.3	50
7	A sensitive YBaCuO thin film bolometer with ultrawide wavelength response. Journal of Applied Physics, 1992, 72, 3855-3861.	2.5	35
8	Theory and experiment of step bunching on misoriented GaAs(001) during metalorganic vapor-phase epitaxy. Applied Physics Letters, 2008, 92, 013117.	3.3	31
9	Narrow ( $\sim 4\text{meV}$ ) inhomogeneous broadening and its correlation with confinement potential of pyramidal quantum dot arrays. Applied Physics Letters, 2007, 91, 081106.	3.3	29
10	Site-controlled single quantum wire integrated into a photonic-crystal membrane microcavity. Applied Physics Letters, 2007, 90, 153107.	3.3	26
11	Effect of Pure Dephasing and Phonon Scattering on the Coupling of Semiconductor Quantum Dots to Optical Cavities. Physical Review Letters, 2016, 117, 076801.	7.8	25
12	Effect of sidewall passivation in $\text{BCl}_3/\text{N}_2$ inductively coupled plasma etching of two-dimensional GaAs photonic crystals. Journal of Vacuum Science & Technology B, 2009, 27, L21.	1.3	24
13	Dilute nitride InGaAsN/GaAs V-groove quantum wires emitting at $1.3 \mu\text{m}$ wavelength at room temperature. Applied Physics Letters, 2011, 99, .	3.3	21
14	Bound and anti-bound biexciton in site-controlled pyramidal GaInAs/GaAs quantum dots. Applied Physics Letters, 2012, 101, .	3.3	20
15	Exciton dynamics in a site-controlled quantum dot coupled to a photonic crystal cavity. Applied Physics Letters, 2015, 107, .	3.3	18
16	Experimental evidence for Luttinger liquid behavior in sufficiently long GaAs V-groove quantum wires. Physical Review B, 2012, 85, .	3.2	17
17	Non-centrosymmetric plasmonic crystals for second-harmonic generation with controlled anisotropy and enhancement. Laser and Photonics Reviews, 2016, 10, 287-298.	8.7	17
18	Deterministic radiative coupling of two semiconductor quantum dots to the optical mode of a photonic crystal nanocavity. Scientific Reports, 2017, 7, 4100.	3.3	17

#	ARTICLE	IF	CITATIONS
19	Site-controlled quantum dots coupled to a photonic crystal molecule. Applied Physics Letters, 2015, 107, .	3.3	16
20	Diffusion of electron-hole pairs in disordered quantum wires. Applied Physics Letters, 2008, 93, 192101.	3.3	13
21	Integration of multiple site-controlled pyramidal quantum dot systems with photonic-crystal membrane cavities. Journal of Crystal Growth, 2015, 414, 192-195.	1.5	13
22	Patterning of confined-state energies in site-controlled semiconductor quantum dots. Applied Physics Letters, 2005, 86, 243105.	3.3	11
23	High-quality 1.3 $\mu\text{m}$ -wavelength InGaAsN/GaAs quantum wells grown by metalorganic vapor phase epitaxy on vicinal substrates. Applied Physics Letters, 2011, 99, .	3.3	11
24	Self-formation of hexagonal nanotemplates for growth of pyramidal quantum dots by metalorganic vapor phase epitaxy on patterned substrates. Nano Research, 2016, 9, 3279-3290.	10.4	11
25	Single photon extraction and propagation in photonic crystal waveguides incorporating site-controlled quantum dots. Applied Physics Letters, 2018, 112, 051105.	3.3	11
26	Dense arrays of site-controlled quantum dots with tailored emission wavelength: Growth mechanisms and optical properties. Applied Physics Letters, 2017, 111, .	3.3	10
27	Magneto-optical properties of single site-controlled InGaAsN quantum wires grown on prepatterned GaAs substrates. Physical Review B, 2012, 85, .	3.2	9
28	Emission wavelength control of ordered arrays of InGaAs/GaAs quantum dots. Journal of Crystal Growth, 2017, 464, 69-74.	1.5	9
29	Reduced temperature sensitivity of the polarization properties of hydrogenated InGaAsN V-groove quantum wires. Applied Physics Letters, 2012, 101, 151114.	3.3	8
30	Limiting the Spectral Diffusion of Nano-Scale Light Emitters using the Purcell effect in a Photonic-Confined Environment. Scientific Reports, 2019, 9, 1195.	3.3	8
31	Narrow inhomogeneous broadening of V-groove quantum wires grown on vicinal substrates. Applied Physics Letters, 2008, 93, .	3.3	6
32	Probing disorder and mode localization in photonic crystal cavities using site-controlled quantum dots. Journal of Applied Physics, 2018, 123, 043109.	2.5	6
33	Mode Interference Effect in Optical Emission of Quantum Dots in Photonic Crystal Cavities. Physical Review X, 2022, 12, .	8.9	6
34	Engineering conduction and valence band states in site-controlled pyramidal quantum dots. Applied Physics Letters, 2011, 98, 253102.	3.3	5
35	Comparative Study of Atomic Force Imaging of DNA on Graphite and Mica Surfaces. AIP Conference Proceedings, 2006, , .	0.4	4
36	Deterministic coupling of a system of multiple quantum dots to a single photonic cavity mode. Applied Physics Letters, 2017, 111, .	3.3	4

#	ARTICLE	IF	CITATIONS
37	Tilted-potential photonic crystal cavities for integrated quantum photonics. Optics Express, 2019, 27, 21822.	3.4	4
38	Photocurrent spectroscopy of site-controlled pyramidal quantum dots. Applied Physics Letters, 2012, 101, 031110.	3.3	3
39	Observation of charged excitons in V-groove quantum wires. Physica Status Solidi C: Current Topics in Solid State Physics, 2004, 1, 526-530.	0.8	1
40	Observation of stimulated emission and lasing in quantum-wire photonic-crystal nanocavities. , 2009, , .		1
41	Effects of hydrogen irradiation on the optical and electronic properties of site-controlled InGaAsN V-groove quantum wires. , 2013, , .		1
42	Stokes Parameters and Hybridization of Optical Modes in Long-Wavelength Vertical-Cavity Surface-Emitting Lasers (VCSELs). , 2014, , .		1
43	Multiexciton dynamics in tailored band-gap quasi-one-dimensional systems. Physical Review B, 2015, 91, .	3.2	1
44	Polarization control of wafer-fused long-wavelength VCSELs using sub-wavelength shallow gratings. , 2008, , .		1
45	Charged excitons in modulation-doped quantum wires. AIP Conference Proceedings, 2005, , .	0.4	0
46	Entangled photons produced with high-symmetry site-controlled quantum dots. , 2009, , .		0
47	$\sim 1\text{meV}$ inhomogeneous broadening of large area ( $\sim 1\text{cm}^2$ ) arrays of site-controlled pyramidal quantum dots. , 2009, , .		0
48	Valence Band Engineering and Polarization Switching in Quantum Dots grown in Inverted Pyramids. , 2009, , .		0
49	Coupled photonic-crystal cavities and quantum-wire microlasers. , 2009, , .		0
50	Dense ( $10^8\text{cm}^{-2}$ ) arrays of ordered quantum dots with narrow ( $\sim 10\text{meV}$ ) photoluminescence spectra. , 2009, , .		0
51	Site-controlled quantum-wire and quantum-dot photonic-crystal microcavity lasers. , 2010, , .		0
52	Effects of hydrogen irradiation on the optical and electronic properties of site-controlled InGaAsN V-groove quantum wires. Physica Status Solidi C: Current Topics in Solid State Physics, 2013, 10, 556-560.	0.8	0
53	Optical Injection and Lasing Dynamics in Long-Wavelength VCSELs With Intracavity Patterning. IEEE Journal of Selected Topics in Quantum Electronics, 2015, 21, 659-667.	2.9	0
54	Site-controlled quantum dots coupled to photonic crystal cavities and waveguides. , 2016, , .		0

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55	Observation of wavelength- and loss-splitting of supermodes in coupled photonic-crystal microcavities. , 2008, , .		0