

# Michiel J A De Dood

## List of Publications by Year in descending order

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82  
papers

2,598  
citations

159358

30  
h-index

189595

50  
g-index

82  
all docs

82  
docs citations

82  
times ranked

2986  
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface Plasmon Lasing Observed in Metal Hole Arrays. <i>Physical Review Letters</i> , 2013, 110, 206802.	2.9	228
2	Photoluminescence quantum efficiency of dense silicon nanocrystal ensembles in SiO <sub>2</sub> . <i>Physical Review B</i> , 2006, 73, .	1.1	113
3	Experimental Observation of Strong Edge Effects on the Pseudodiffusive Transport of Light in Photonic Graphene. <i>Physical Review Letters</i> , 2010, 104, 043903.	2.9	111
4	Excitation and deexcitation of Er <sup>3+</sup> in crystalline silicon. <i>Applied Physics Letters</i> , 1997, 70, 1721-1723.	1.5	109
5	Experimental Test of Theories of the Detection Mechanism in a Nanowire Superconducting Single Photon Detector. <i>Physical Review Letters</i> , 2014, 112, 117604.	2.9	106
6	Self-assembled infrared-luminescent Er <sup>3+</sup> /SiO <sub>2</sub> crystallites on silicon. <i>Applied Physics Letters</i> , 2004, 85, 4343.	1.5	103
7	Förster transfer and the local optical density of states in erbium-doped silica. <i>Physical Review B</i> , 2005, 71, .	1.1	100
8	Photon Statistics from Coupled Quantum Dots. <i>Physical Review Letters</i> , 2005, 95, 137403.	2.9	98
9	Fabrication of two-dimensional photonic crystal waveguides for 1.5 μm in silicon by deep anisotropic dry etching. <i>Journal of Vacuum Science &amp; Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1999, 17, 2734.	1.6	96
10	Erbium-implanted silica colloids with 80% luminescence quantum efficiency. <i>Applied Physics Letters</i> , 2000, 76, 3682-3684.	1.5	84
11	Optimal Quantum Cloning on a Beam Splitter. <i>Physical Review Letters</i> , 2004, 92, 047902.	2.9	74
12	Observation of Four-Photon Orbital Angular Momentum Entanglement. <i>Physical Review Letters</i> , 2016, 116, 073601.	2.9	70
13	High Finesse Opto-Mechanical Cavity with a Movable Thirty-Micron-Size Mirror. <i>Physical Review Letters</i> , 2006, 96, 173901.	2.9	60
14	The perfect absorber. <i>Applied Physics Letters</i> , 2009, 94, .	1.5	60
15	Local optical density of states in SiO <sub>2</sub> spherical microcavities: Theory and experiment. <i>Physical Review A</i> , 2001, 64, .	1.0	58
16	Acid-Based Synthesis of Monodisperse Rare-Earth-Doped Colloidal SiO <sub>2</sub> Spheres. <i>Chemistry of Materials</i> , 2002, 14, 2849-2853.	3.2	58
17	Amorphous silicon waveguides for microphotronics. <i>Journal of Applied Physics</i> , 2002, 92, 649-653.	1.1	58
18	Effects of heat treatment and concentration on the luminescence properties of erbium-doped silica sol-gel films. <i>Journal of Non-Crystalline Solids</i> , 2001, 296, 158-164.	1.5	56

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19	Frequency control of photonic crystal membrane resonators by monolayer deposition. Applied Physics Letters, 2006, 88, 043116.	1.5	52
20	Modified detector tomography technique applied to a superconducting multiphoton nanodetector. Optics Express, 2012, 20, 2806.	1.7	51
21	Nonlinear Photonic Crystals as a Source of Entangled Photons. Physical Review Letters, 2004, 93, 040504.	2.9	49
22	Quenching of Si nanocrystal photoluminescence by doping with gold or phosphorous. Journal of Luminescence, 2005, 114, 137-144.	1.5	49
23	Position-Dependent Local Detection Efficiency in a Nanowire Superconducting Single-Photon Detector. Nano Letters, 2015, 15, 4541-4545.	4.5	48
24	Large Spectral Birefringence in Photoaddressable Polymer Films. Advanced Materials, 2004, 16, 1746-1750.	11.1	44
25	Ion beam-induced anisotropic plastic deformation of silicon microstructures. Applied Physics Letters, 2004, 84, 3591-3593.	1.5	43
26	Impedance model for the polarization-dependent optical absorption of superconducting single-photon detectors. EPJ Applied Physics, 2009, 47, 10701.	0.3	41
27	Design and optimization of 2D photonic crystal waveguides based on silicon. Optical and Quantum Electronics, 2002, 34, 145-159.	1.5	33
28	Surface plasmon dispersion in metal hole array lasers. Optics Express, 2013, 21, 27422.	1.7	33
29	Modified spontaneous emission in erbium-doped SiO <sub>2</sub> spherical colloids. Applied Physics Letters, 2001, 79, 3585-3587.	1.5	32
30	Fano resonances in a multimode waveguide coupled to a high-Q silicon nitride ring resonator. Optics Express, 2014, 22, 6778.	1.7	31
31	Modified spontaneous emission from erbium-doped photonic layer-by-layer crystals. Physical Review B, 2003, 67, .	1.1	29
32	Multidimensional Purcell effect in an ytterbium-doped ring resonator. Nature Photonics, 2016, 10, 385-388.	15.6	29
33	Theoretical study of photonic band gaps in woodpile crystals. Physical Review E, 2003, 67, 066601.	0.8	28
34	Universal response curve for nanowire superconducting single-photon detectors. Physical Review B, 2013, 87, .	1.1	27
35	Hidden Transition in the "Unfreezable Water" Region of the PVP~Water System. Journal of Physical Chemistry B, 2003, 107, 5906-5913.	1.2	26
36	Observation of coupling between surface plasmons in index-matched hole arrays. Physical Review B, 2008, 77, .	1.1	23

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37	Novel Method for Solution Growth of Thin Silica Films from Tetraethoxysilane. <i>Advanced Materials</i> , 2000, 12, 1434-1437.	11.1	22
38	Luminescence quantum efficiency and local optical density of states in thin film ruby made by ion implantation. <i>Journal of Applied Physics</i> , 2000, 88, 5142-5147.	1.1	20
39	Bloch theory of entangled photon generation in nonlinear photonic crystals. <i>Physical Review A</i> , 2005, 72, .	1.0	19
40	Measurement of the Phase and Intensity Profile of Surface Plasmon Laser Emission. <i>ACS Photonics</i> , 2016, 3, 942-946.	3.2	19
41	Interpretation of Fano lineshape reversal in the reflectivity spectra of photonic crystal slabs. <i>Optics Express</i> , 2010, 18, 26569.	1.7	18
42	Experimental investigation of the detection mechanism in WSi nanowire superconducting single photon detectors. <i>Applied Physics Letters</i> , 2016, 109, .	1.5	18
43	Imaging moiré deformation and dynamics in twisted bilayer graphene. <i>Nature Communications</i> , 2022, 13, 70.	5.8	16
44	The effect of magnetic field on the intrinsic detection efficiency of superconducting single-photon detectors. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	14
45	Tomography and state reconstruction with superconducting single-photon detectors. <i>Physical Review A</i> , 2012, 86, .	1.0	11
46	Loss and scattering of surface plasmon polaritons on optically-pumped hole arrays. <i>Journal of Optics (United Kingdom)</i> , 2014, 16, 114019.	1.0	11
47	Superstructure and finite-size effects in a Si photonic woodpile crystal. <i>Physical Review B</i> , 2003, 67, .	1.1	10
48	Surface plasmon dispersion in hexagonal, honeycomb and kagome plasmonic crystals. <i>Optics Express</i> , 2016, 24, 29624.	1.7	10
49	Probing the hotspot interaction length in NbN nanowire superconducting single photon detectors. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	10
50	Two-mode surface plasmon lasing in hexagonal arrays. <i>Optics Letters</i> , 2018, 43, 166.	1.7	9
51	Ultrafast optical response of a high-reflectivity GaAs <sup>+</sup> AlAs Bragg mirror. <i>Applied Physics Letters</i> , 2005, 86, 031109.	1.5	8
52	Spatially entangled four-photon states from a periodically poled potassium-titanyl-phosphate crystal. <i>Physical Review A</i> , 2012, 85, .	1.0	8
53	Design of NbN Superconducting Nanowire Single-Photon Detectors with Enhanced Infrared Detection Efficiency. <i>Physical Review Applied</i> , 2017, 8, .	1.5	8
54	Asymmetry reversal in the reflection from a two-dimensional photonic crystal. <i>Optics Letters</i> , 2007, 32, 3137.	1.7	7

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55	Incorporation, Excitation and De-Excitation of Erbium in Crystal Silicon. Materials Research Society Symposia Proceedings, 1996, 422, 219.	0.1	6
56	Optical properties of high-quality nanohole arrays in gold made using soft-nanoimprint lithography. MRS Communications, 2015, 5, 547-553.	0.8	6
57	Enhanced coupling of plasmons in hole arrays with periodic dielectric antennas. Optics Letters, 2008, 33, 363.	1.7	5
58	An absorption-based superconducting nano-detector as a near-field optical probe. Optics Express, 2013, 21, 3682.	1.7	5
59	Local detection efficiency of a NbN superconducting single photon detector explored by a scattering scanning near-field optical microscope. Optics Express, 2015, 23, 24873.	1.7	5
60	Probing interacting two-level systems with rare-earth ions. Physical Review B, 2020, 101, .	1.1	4
61	Erbium-silicon-oxide Nano-complexes Prepared by Wet Chemical Synthesis. Materials Research Society Symposia Proceedings, 2003, 770, 361.	0.1	3
62	Photoluminescence quantum efficiency and energy transfer of ErRE silicate (RE=Er, Yb) thin films. Journal Physics D: Applied Physics, 2012, 45, 165101.	1.3	3
63	SESAM modelocked Yb:CaGdAlO <sub>4</sub> laser in the soliton modelocking regime with positive intracavity dispersion. Optics Express, 2014, 22, 5913.	1.7	3
64	How noise affects quantum detector tomography. Journal of Applied Physics, 2015, 118, .	1.1	3
65	Surface plasmon laser with two hole arrays as cavity mirrors. Optica, 2019, 6, 92.	4.8	3
66	Transfer of photonic crystal membranes to a transparent gel substrate. Optics Express, 2011, 19, 19532.	1.7	2
67	Index matching of surface plasmons. , 2008, , .		1
68	Near-field single photon detection in a scattering SNOM. Proceedings of SPIE, 2015, , .	0.8	1
69	Asymmetry reversal and waveguide modes in photonic crystal slabs. , 2008, , .		0
70	The Dirac Point of Photonic Graphene. , 2009, , .		0
71	Characterization of parametric down-conversion in periodically poled KTP crystals with a picosecond pump. Proceedings of SPIE, 2012, , .	0.8	0
72	Fano interpretation of second harmonic generation in a photonic crystal on a gel. Applied Physics Letters, 2012, 101, 261120.	1.5	0

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73	Quantum Detector Tomography on Superconducting Single Photon Detectors. , 2014, , .		0
74	Surface-plasmon lasing in hexagonal hole arrays. , 2017, , .		0
75	1, 2 and 3 Dimensional Photonic Materials Made Using Ion Beams: Fabrication and Optical Density-of-States. , 2001, , 555-566.		0
76	Coupling surface plasmons: Index matching and dielectric pillar arrays. , 2008, , .		0
77	Four-Photon Stimulated Emission. , 2014, , .		0
78	Resolving Subwavelength Variations in the Response of NbN Nanowire Single Photon Detectors. , 2015, , .		0
79	Lasing Characteristics of Two Dimensional Surface Plasmon Lasers in an Active Meta-Material. , 2015, , .		0
80	Design of NbN superconducting nanowire single photon detectors with enhanced infrared photon detection efficiency. , 2017, , .		0
81	Photonic graphene with broken symmetry: complete photonic bandgap and defect modes. , 2018, , .		0
82	Design of efficient superconducting nanowire single photon detectors for near-infrared wavelengths. , 2018, , .		0