

Michiel J A De Dood

List of Publications by Year in descending order

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82
papers

2,598
citations

159525

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189801

50
g-index

82
all docs

82
docs citations

82
times ranked

2986
citing authors

#	ARTICLE	IF	CITATIONS
1	Imaging moiré deformation and dynamics in twisted bilayer graphene. Nature Communications, 2022, 13, 70.	5.8	16
2	Probing interacting two-level systems with rare-earth ions. Physical Review B, 2020, 101, .	1.1	4
3	Surface plasmon laser with two hole arrays as cavity mirrors. Optica, 2019, 6, 92.	4.8	3
4	Two-mode surface plasmon lasing in hexagonal arrays. Optics Letters, 2018, 43, 166.	1.7	9
5	Photonic graphene with broken symmetry: complete photonic bandgap and defect modes. , 2018, , .		0
6	Design of efficient superconducting nanowire single photon detectors for near-infrared wavelengths. , 2018, , .		0
7	Design of NbN Superconducting Nanowire Single-Photon Detectors with Enhanced Infrared Detection Efficiency. Physical Review Applied, 2017, 8, .	1.5	8
8	Probing the hotspot interaction length in NbN nanowire superconducting single photon detectors. Applied Physics Letters, 2017, 110, .	1.5	10
9	Surface-plasmon lasing in hexagonal hole arrays. , 2017, , .		0
10	Design of NbN superconducting nanowire single photon detectors with enhanced infrared photon detection efficiency. , 2017, , .		0
11	Surface plasmon dispersion in hexagonal, honeycomb and kagome plasmonic crystals. Optics Express, 2016, 24, 29624.	1.7	10
12	Measurement of the Phase and Intensity Profile of Surface Plasmon Laser Emission. ACS Photonics, 2016, 3, 942-946.	3.2	19
13	Multidimensional Purcell effect in an ytterbium-doped ring resonator. Nature Photonics, 2016, 10, 385-388.	15.6	29
14	Experimental investigation of the detection mechanism in WSi nanowire superconducting single photon detectors. Applied Physics Letters, 2016, 109, .	1.5	18
15	Observation of Four-Photon Orbital Angular Momentum Entanglement. Physical Review Letters, 2016, 116, 073601.	2.9	70
16	Optical properties of high-quality nanohole arrays in gold made using soft-nanoimprint lithography. MRS Communications, 2015, 5, 547-553.	0.8	6
17	How noise affects quantum detector tomography. Journal of Applied Physics, 2015, 118, .	1.1	3
18	Near-field single photon detection in a scattering SNOM. Proceedings of SPIE, 2015, , .	0.8	1

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19	Position-Dependent Local Detection Efficiency in a Nanowire Superconducting Single-Photon Detector. Nano Letters, 2015, 15, 4541-4545.	4.5	48
20	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
21	The effect of magnetic field on the intrinsic detection efficiency of superconducting single-photon detectors. Applied Physics Letters, 2015, 106, .	1.5	14
22	Resolving Subwavelength Variations in the Response of NbN Nanowire Single Photon Detectors. , 2015, , .		0
23	Lasing Characteristics of Two Dimensional Surface Plasmon Lasers in an Active Meta-Material. , 2015, , .		0
24	Quantum Detector Tomography on Superconducting Single Photon Detectors. , 2014, , .		0
25	SESAM modelocked Yb:CaGdAlO ₄ laser in the soliton modelocking regime with positive intracavity dispersion. Optics Express, 2014, 22, 5913.	1.7	3
26	Fano resonances in a multimode waveguide coupled to a high-Q silicon nitride ring resonator. Optics Express, 2014, 22, 6778.	1.7	31
27	Loss and scattering of surface plasmon polaritons on optically-pumped hole arrays. Journal of Optics (United Kingdom), 2014, 16, 114019.	1.0	11
28	Experimental Test of Theories of the Detection Mechanism in a Nanowire Superconducting Single Photon Detector. Physical Review Letters, 2014, 112, 117604.	2.9	106
29	Four-Photon Stimulated Emission. , 2014, , .		0
30	Surface Plasmon Lasing Observed in Metal Hole Arrays. Physical Review Letters, 2013, 110, 206802.	2.9	228
31	Universal response curve for nanowire superconducting single-photon detectors. Physical Review B, 2013, 87, .	1.1	27
32	An absorption-based superconducting nano-detector as a near-field optical probe. Optics Express, 2013, 21, 3682.	1.7	5
33	Surface plasmon dispersion in metal hole array lasers. Optics Express, 2013, 21, 27422.	1.7	33
34	Photoluminescence quantum efficiency and energy transfer of ErRE silicate (RE=ÅY, Yb) thin films. Journal Physics D: Applied Physics, 2012, 45, 165101.	1.3	3
35	Characterization of parametric down-conversion in periodically poled KTP crystals with a picosecond pump. Proceedings of SPIE, 2012, , .	0.8	0
36	Modified detector tomography technique applied to a superconducting multiphoton nanodetector. Optics Express, 2012, 20, 2806.	1.7	51

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37	Fano interpretation of second harmonic generation in a photonic crystal on a gel. Applied Physics Letters, 2012, 101, 261120.	1.5	0
38	Spatially entangled four-photon states from a periodically poled potassium-titanyl-phosphate crystal. Physical Review A, 2012, 85, .	1.0	8
39	Tomography and state reconstruction with superconducting single-photon detectors. Physical Review A, 2012, 86, .	1.0	11
40	Transfer of photonic crystal membranes to a transparent gel substrate. Optics Express, 2011, 19, 19532.	1.7	2
41	Experimental Observation of Strong Edge Effects on the Pseudodiffusive Transport of Light in Photonic Graphene. Physical Review Letters, 2010, 104, 043903.	2.9	111
42	Interpretation of Fano lineshape reversal in the reflectivity spectra of photonic crystal slabs. Optics Express, 2010, 18, 26569.	1.7	18
43	The perfect absorber. Applied Physics Letters, 2009, 94, .	1.5	60
44	Impedance model for the polarization-dependent optical absorption of superconducting single-photon detectors. EPJ Applied Physics, 2009, 47, 10701.	0.3	41
45	The Dirac Point of Photonic Graphene. , 2009, , .		0
46	Enhanced coupling of plasmons in hole arrays with periodic dielectric antennas. Optics Letters, 2008, 33, 363.	1.7	5
47	Observation of coupling between surface plasmons in index-matched hole arrays. Physical Review B, 2008, 77, .	1.1	23
48	Index matching of surface plasmons. , 2008, , .		1
49	Asymmetry reversal and waveguide modes in photonic crystal slabs. , 2008, , .		0
50	Coupling surface plasmons: Index matching and dielectric pillar arrays. , 2008, , .		0
51	Asymmetry reversal in the reflection from a two-dimensional photonic crystal. Optics Letters, 2007, 32, 3137.	1.7	7
52	Photoluminescence quantum efficiency of dense silicon nanocrystal ensembles in SiO ₂ . Physical Review B, 2006, 73, .	1.1	113
53	Frequency control of photonic crystal membrane resonators by monolayer deposition. Applied Physics Letters, 2006, 88, 043116.	1.5	52
54	High Finesse Opto-Mechanical Cavity with a Movable Thirty-Micron-Size Mirror. Physical Review Letters, 2006, 96, 173901.	2.9	60

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55	Quenching of Si nanocrystal photoluminescence by doping with gold or phosphorous. Journal of Luminescence, 2005, 114, 137-144.	1.5	49
56	Bloch theory of entangled photon generation in nonlinear photonic crystals. Physical Review A, 2005, 72, .	1.0	19
57	Förster transfer and the local optical density of states in erbium-doped silica. Physical Review B, 2005, 71, .	1.1	100
58	Photon Statistics from Coupled Quantum Dots. Physical Review Letters, 2005, 95, 137403.	2.9	98
59	Ultrafast optical response of a high-reflectivity GaAs/AlAs Bragg mirror. Applied Physics Letters, 2005, 86, 031109.	1.5	8
60	Optimal Quantum Cloning on a Beam Splitter. Physical Review Letters, 2004, 92, 047902.	2.9	74
61	Nonlinear Photonic Crystals as a Source of Entangled Photons. Physical Review Letters, 2004, 93, 040504.	2.9	49
62	Large Spectral Birefringence in Photoaddressable Polymer Films. Advanced Materials, 2004, 16, 1746-1750.	11.1	44
63	Self-assembled infrared-luminescent Er ³⁺ /SiO ₂ crystallites on silicon. Applied Physics Letters, 2004, 85, 4343.	1.5	103
64	Ion beam-induced anisotropic plastic deformation of silicon microstructures. Applied Physics Letters, 2004, 84, 3591-3593.	1.5	43
65	Theoretical study of photonic band gaps in woodpile crystals. Physical Review E, 2003, 67, 066601.	0.8	28
66	Hidden Transition in the Unfreezable Water Region of the PVP/Water System. Journal of Physical Chemistry B, 2003, 107, 5906-5913.	1.2	26
67	Superstructure and finite-size effects in a Si photonic woodpile crystal. Physical Review B, 2003, 67, .	1.1	10
68	Modified spontaneous emission from erbium-doped photonic layer-by-layer crystals. Physical Review B, 2003, 67, .	1.1	29
69	Erbium-silicon-oxide Nano-complexes Prepared by Wet Chemical Synthesis. Materials Research Society Symposia Proceedings, 2003, 770, 361.	0.1	3
70	Acid-Based Synthesis of Monodisperse Rare-Earth-Doped Colloidal SiO ₂ Spheres. Chemistry of Materials, 2002, 14, 2849-2853.	3.2	58
71	Amorphous silicon waveguides for microphotronics. Journal of Applied Physics, 2002, 92, 649-653.	1.1	58
72	Design and optimization of 2D photonic crystal waveguides based on silicon. Optical and Quantum Electronics, 2002, 34, 145-159.	1.5	33

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73	Effects of heat treatment and concentration on the luminescence properties of erbium-doped silica sol-gel films. Journal of Non-Crystalline Solids, 2001, 296, 158-164.	1.5	56
74	Modified spontaneous emission in erbium-doped SiO ₂ spherical colloids. Applied Physics Letters, 2001, 79, 3585-3587.	1.5	32
75	Local optical density of states in SiO ₂ spherical microcavities: Theory and experiment. Physical Review A, 2001, 64, .	1.0	58
76	1, 2 and 3 Dimensional Photonic Materials Made Using Ion Beams: Fabrication and Optical Density-of-States. , 2001, , 555-566.		0
77	Novel Method for Solution Growth of Thin Silica Films from Tetraethoxysilane. Advanced Materials, 2000, 12, 1434-1437.	11.1	22
78	Luminescence quantum efficiency and local optical density of states in thin film ruby made by ion implantation. Journal of Applied Physics, 2000, 88, 5142-5147.	1.1	20
79	Erbium-implanted silica colloids with 80% luminescence quantum efficiency. Applied Physics Letters, 2000, 76, 3682-3684.	1.5	84
80	Fabrication of two-dimensional photonic crystal waveguides for 1.5 μm in silicon by deep anisotropic dry etching. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1999, 17, 2734.	1.6	96
81	Excitation and deexcitation of Er ³⁺ in crystalline silicon. Applied Physics Letters, 1997, 70, 1721-1723.	1.5	109
82	Incorporation, Excitation and De-Excitation of Erbium in Crystal Silicon. Materials Research Society Symposia Proceedings, 1996, 422, 219.	0.1	6