

# Kristiaan De Greve

## List of Publications by Year in descending order

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27  
papers

3,118  
citations

430442

18  
h-index

713013

21  
g-index

31  
all docs

31  
docs citations

31  
times ranked

4674  
citing authors

#	ARTICLE	IF	CITATIONS
1	In-Plane Resistivity Anisotropy in an Underdoped Iron Arsenide Superconductor. <i>Science</i> , 2010, 329, 824-826.	6.0	690
2	Quantum-dot spin-photon entanglement via frequency downconversion to telecom wavelength. <i>Nature</i> , 2012, 491, 421-425.	13.7	423
3	Ultrafast optical spin echo in a single quantum dot. <i>Nature Photonics</i> , 2010, 4, 367-370.	15.6	298
4	Probing dark excitons in atomically thin semiconductors via near-field coupling to surface plasmon polaritons. <i>Nature Nanotechnology</i> , 2017, 12, 856-860.	15.6	270
5	Electrical control of interlayer exciton dynamics in atomically thin heterostructures. <i>Science</i> , 2019, 366, 870-875.	6.0	255
6	Ultrafast coherent control and suppressed nuclear feedback of a single quantum dot hole qubit. <i>Nature Physics</i> , 2011, 7, 872-878.	6.5	205
7	Large Excitonic Reflectivity of Monolayer $\text{MoSe}_2$ in Hexagonal Boron Nitride. <i>Physical Review Letters</i> , 2018, 120, 037402.	2.9	165
8	Electrical control of charged carriers and excitons in atomically thin materials. <i>Nature Nanotechnology</i> , 2018, 13, 128-132.	15.6	142
9	Excitons in a reconstructed moiré potential in twisted $\text{WSe}_2/\text{WSe}_2$ homobilayers. <i>Nature Materials</i> , 2021, 20, 480-487.	13.3	109
10	Origins of Diamond Surface Noise Probed by Correlating Single-Spin Measurements with Surface Spectroscopy. <i>Physical Review X</i> , 2019, 9, .	2.8	107
11	Possible origin of the nonmonotonic doping dependence of the in-plane resistivity anisotropy of $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$ . <i>Physical Review B</i> , 2011, 84, .	1.1	95
12	In-plane electronic anisotropy in underdoped $\text{BaFe}_2\text{As}_2$ . <i>Physical Review B</i> , 2010, 81, .	1.1	72
13	Ultrafast optical control of individual quantum dot spin qubits. <i>Reports on Progress in Physics</i> , 2013, 76, 092501.	8.1	59
14	Downconversion quantum interface for a single quantum dot spin and 1550-nm single-photon channel. <i>Optics Express</i> , 2012, 20, 27510.	1.7	57
15	Controlling Excitons in an Atomically Thin Membrane with a Mirror. <i>Physical Review Letters</i> , 2020, 124, 027401.	2.9	55
16	Pulsed Nuclear Pumping and Spin Diffusion in a Single Charged Quantum Dot. <i>Physical Review Letters</i> , 2010, 105, 107401.	2.9	51
17	Complete tomography of a high-fidelity solid-state entangled spin-photon qubit pair. <i>Nature Communications</i> , 2013, 4, 2228.	5.8	31
18	Electrically controlled emission from singlet and triplet exciton species in atomically thin light-emitting diodes. <i>Physical Review B</i> , 2021, 103, .	1.1	26

#	ARTICLE	IF	CITATIONS
19	Towards Quantum Repeaters with Solid-State Qubits: Spin-Photon Entanglement Generation Using Self-assembled Quantum Dots. Nano-optics and Nanophotonics, 2015, , 365-402.	0.2	5
20	Asymmetric photoelectric effect: Auger-assisted hot hole photocurrents in transition metal dichalcogenides. Nanophotonics, 2020, 10, 105-113.	2.9	2
21	Spin-Photon Entanglement in Semiconductor Quantum Dots: Towards Solid-State-Based Quantum Repeaters. Lecture Notes in Physics, 2016, , 71-89.	0.3	1
22	Fault-tolerant quantum repeaters for long-distance quantum communication based on quantum dots. , 2012, , .		0
23	Single spins in semiconductor quantum dot microcavities. , 2013, , .		0
24	Entanglement Between a Single Quantum Dot Spin and a Single Photon. Springer Theses, 2013, , 99-117.	0.0	0
25	Ultrafast downconversion quantum interface for a single quantum dot spin and 1550-nm single-photon channel. , 2013, , .		0
26	Ultrafast Coherent Control of Individual Electron Spin Qubits. Springer Theses, 2013, , 39-65.	0.0	0
27	Quantum Memories: Quantum Dot Spin Qubits. Springer Theses, 2013, , 25-38.	0.0	0