

# Torsten Rendler

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/11435356/publications.pdf>

Version: 2024-02-01

15  
papers

1,451  
citations

687363

13  
h-index

1058476

14  
g-index

15  
all docs

15  
docs citations

15  
times ranked

2064  
citing authors

#	ARTICLE	IF	CITATIONS
1	Coherent control of single spins in silicon carbide at room temperature. <i>Nature Materials</i> , 2015, 14, 164-168.	27.5	472
2	Molecular-sized fluorescent nanodiamonds. <i>Nature Nanotechnology</i> , 2014, 9, 54-58.	31.5	229
3	Optical imaging of localized chemical events using programmable diamond quantum nanosensors. <i>Nature Communications</i> , 2017, 8, 14701.	12.8	135
4	Scalable Quantum Photonics with Single Color Centers in Silicon Carbide. <i>Nano Letters</i> , 2017, 17, 1782-1786.	9.1	129
5	Enhancing quantum sensing sensitivity by a quantum memory. <i>Nature Communications</i> , 2016, 7, 12279.	12.8	115
6	Boosting nanodiamond fluorescence: towards development of brighter probes. <i>Nanoscale</i> , 2013, 5, 3208.	5.6	107
7	Readout and control of a single nuclear spin with a metastable electron spin ancilla. <i>Nature Nanotechnology</i> , 2013, 8, 487-492.	31.5	64
8	Electrical Charge State Manipulation of Single Silicon Vacancies in a Silicon Carbide Quantum Optoelectronic Device. <i>Nano Letters</i> , 2019, 19, 7173-7180.	9.1	61
9	Coherent electrical readout of defect spins in silicon carbide by photo-ionization at ambient conditions. <i>Nature Communications</i> , 2019, 10, 5569.	12.8	43
10	Bright single photon sources in lateral silicon carbide light emitting diodes. <i>Applied Physics Letters</i> , 2018, 112, .	3.3	33
11	Robust and efficient quantum optimal control of spin probes in a complex (biological) environment. Towards sensing of fast temperature fluctuations. <i>New Journal of Physics</i> , 2018, 20, 123013.	2.9	19
12	Supported Lipid Bilayers on Fluorescent Nanodiamonds: A Structurally Defined and Versatile Coating for Bioapplications. <i>Advanced Functional Materials</i> , 2018, 28, 1803406.	14.9	19
13	Association of Nanodiamond Rotation Dynamics with Cell Activities by Translation-Rotation Tracking. <i>Nano Letters</i> , 2021, 21, 3393-3400.	9.1	17
14	Single molecule DNA detection with an atomic vapor notch filter. <i>EPJ Quantum Technology</i> , 2015, 2, .	6.3	6
15	Scalable Quantum Photonics with Single Color Centers in Silicon Carbide. , 2017, , .		2