

# Jean-Philippe Tetienne

## List of Publications by Year in descending order

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74  
papers

11,323  
citations

185998

28  
h-index

118652

62  
g-index

77  
all docs

77  
docs citations

77  
times ranked

9799  
citing authors

#	ARTICLE	IF	CITATIONS
1	Imaging Current Paths in Silicon Photovoltaic Devices with a Quantum Diamond Microscope. <i>Physical Review Applied</i> , 2022, 18, .	1.5	9
2	Polarization Transfer to External Nuclear Spins Using Ensembles of Nitrogen-Vacancy Centers. <i>Physical Review Applied</i> , 2021, 15, .	1.5	19
3	Quantum sensors go flat. <i>Nature Physics</i> , 2021, 17, 1074-1075.	6.5	20
4	Prospects for nuclear spin hyperpolarization of molecular samples using nitrogen-vacancy centers in diamond. <i>Physical Review B</i> , 2021, 103, .	1.1	19
5	Widefield quantum microscopy with nitrogen-vacancy centers in diamond: Strengths, limitations, and prospects. <i>Journal of Applied Physics</i> , 2021, 130, .	1.1	46
6	Quantum magnetic imaging of iron organelles within the pigeon cochlea. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	14
7	An integrated widefield probe for practical diamond nitrogen-vacancy microscopy. <i>Applied Physics Letters</i> , 2021, 119, .	1.5	5
8	Investigation of charge carrier trapping in H-terminated diamond devices. <i>Applied Physics Letters</i> , 2020, 117, 143507.	1.5	4
9	Improved Current Density and Magnetization Reconstruction Through Vector Magnetic Field Measurements. <i>Physical Review Applied</i> , 2020, 14, .	1.5	32
10	Imaging Domain Reversal in an Ultrathin Van der Waals Ferromagnet. <i>Advanced Materials</i> , 2020, 32, e2003314.	11.1	47
11	Quantum Magnetic Imaging of Iron Biomineralization in Teeth of the Chiton <i>Acanthopleura hirtosa</i> . <i>Small Methods</i> , 2020, 4, 1900754.	4.6	27
12	Laser Modulation of Superconductivity in a Cryogenic Wide-field Nitrogen-Vacancy Microscope. <i>Nano Letters</i> , 2020, 20, 1855-1861.	4.5	28
13	Enhanced Widefield Quantum Sensing with Nitrogen-Vacancy Ensembles Using Diamond Nanopillar Arrays. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 13421-13427.	4.0	33
14	Real-time detection and identification of nematode eggs genus and species through optical imaging. <i>Scientific Reports</i> , 2020, 10, 7219.	1.6	14
15	Comparison of different methods of nitrogen-vacancy layer formation in diamond for wide-field quantum microscopy. <i>Physical Review Materials</i> , 2020, 4, .	0.9	14
16	Imaging Graphene Field-Effect Transistors on Diamond Using Nitrogen-Vacancy Microscopy. <i>Physical Review Applied</i> , 2019, 12, .	1.5	18
17	Biocompatible and Biodegradable Magnesium Oxide Nanoparticles with In Vitro Photostable Near-Infrared Emission: Short-Term Fluorescent Markers. <i>Nanomaterials</i> , 2019, 9, 1360.	1.9	25
18	Nonvanishing effect of detuning errors in dynamical-decoupling-based quantum sensing experiments. <i>Physical Review A</i> , 2019, 99, .	1.0	13

#	ARTICLE	IF	CITATIONS
19	Apparent delocalization of the current density in metallic wires observed with diamond nitrogen-vacancy magnetometry. <i>Physical Review B</i> , 2019, 99, .	1.1	14
20	Microscopic Imaging of the Stress Tensor in Diamond Using in Situ Quantum Sensors. <i>Nano Letters</i> , 2019, 19, 4543-4550.	4.5	51
21	Magnetic Materials: Rapid, High-Resolution Magnetic Microscopy of Single Magnetic Microbeads (Small) <i>Tj ETQq</i> 1, 1 0.784314 rgBT 0	5.2	16
22	Intrinsic fluorescence from cellulose nanofibers and nanoparticles at cell friendly wavelengths. <i>APL Photonics</i> , 2019, 4, 020803.	3.0	15
23	Rapid, High-Resolution Magnetic Microscopy of Single Magnetic Microbeads. <i>Small</i> , 2019, 15, 1805159.	5.2	16
24	Quantum Bath Control with Nuclear Spin State Selectivity via Pulse-Adjusted Dynamical Decoupling. <i>Physical Review Letters</i> , 2019, 123, 210401.	2.9	8
25	Evidence for Primal $sp^2$ Defects at the Diamond Surface: Candidates for Electron Trapping and Noise Sources. <i>Advanced Materials Interfaces</i> , 2019, 6, 1801449.	1.9	75
26	Imaging with NV ensembles: beyond magnetometry. , 2019, , .		0
27	High precision single qubit tuning via thermo-magnetic field control. <i>Applied Physics Letters</i> , 2018, 112, .	1.5	8
28	Spin properties of dense near-surface ensembles of nitrogen-vacancy centers in diamond. <i>Physical Review B</i> , 2018, 97, .	1.1	76
29	Manipulating the Quantum Coherence of Optically Trapped Nanodiamonds. <i>ACS Photonics</i> , 2018, 5, 4491-4496.	3.2	8
30	Spatial mapping of band bending in semiconductor devices using in situ quantum sensors. <i>Nature Electronics</i> , 2018, 1, 502-507.	13.1	77
31	Proximity-Induced Artefacts in Magnetic Imaging with Nitrogen-Vacancy Ensembles in Diamond. <i>Sensors</i> , 2018, 18, 1290.	2.1	18
32	Quantum probe hyperpolarisation of molecular nuclear spins. <i>Nature Communications</i> , 2018, 9, 1246.	5.8	53
33	Magnetic noise from ultrathin abrasively deposited materials on diamond. <i>Physical Review Materials</i> , 2018, 2, .	0.9	10
34	Infrared induced photo-dynamics of NV centres in optically trapped nanodiamond. , 2018, , .		0
35	Quantum imaging of current flow in graphene. <i>Science Advances</i> , 2017, 3, e1602429.	4.7	185
36	Environmentally Mediated Coherent Control of a Spin Qubit in Diamond. <i>Physical Review Letters</i> , 2017, 118, 167204.	2.9	8

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37	Microwave-free nuclear magnetic resonance at molecular scales. Nature Communications, 2017, 8, 15950.	5.8	26
38	Anticrossing Spin Dynamics of Diamond Nitrogen-Vacancy Centers and All-Optical Low-Frequency Magnetometry. Physical Review Applied, 2016, 6, .	1.5	28
39	Wide-band nanoscale magnetic resonance spectroscopy using quantum relaxation of a single spin in diamond. Physical Review B, 2016, 94, .	1.1	44
40	Direct measurement of interfacial Dzyaloshinskii-Moriya interaction in $X$ with a scanning NV magnetometer		

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55	Magnetic-field-dependent photodynamics of single NV defects in diamond: an application to qualitative all-optical magnetic imaging. <i>New Journal of Physics</i> , 2012, 14, 103033.	1.2	242
56	Sub-wavelength energy concentration with electrically generated mid-infrared surface plasmons. <i>Optics Express</i> , 2012, 20, 13738.	1.7	8
57	Mid-infrared field concentration of electrically generated surface plasmons polaritons. , 2012, , .		0
58	Nanoscale magnetic field mapping with a single spin scanning probe magnetometer. <i>Applied Physics Letters</i> , 2012, 100, .	1.5	177
59	Enhancement of optical processes in coupled plasmonic nanocavities [Invited]. <i>Applied Optics</i> , 2011, 50, C56.	2.1	9
60	Design of an integrated coupler for the electrical generation of surface plasmon polaritons. <i>Optics Express</i> , 2011, 19, 18155.	1.7	14
61	Multi-wavelength mid-infrared plasmonic antennas with single nanoscale focal point. <i>Optics Express</i> , 2011, 19, 22113.	1.7	29
62	Coupled Nanocavity-Grating Resonances: Large Plasmonic Enhancement of Nonlinear Optical Phenomena. , 2011, , .		0
63	Off-axis and multi-directional plasmonic lenses. , 2011, , .		0
64	Light Propagation with Phase Discontinuities: Generalized Laws of Reflection and Refraction. <i>Science</i> , 2011, 334, 333-337.	6.0	7,240
65	Dipolar modeling and experimental demonstration of multi-beam plasmonic collimators. <i>New Journal of Physics</i> , 2011, 13, 053057.	1.2	29
66	Molding Optical Wavefronts Using Phase Discontinuities. , 2011, , .		0
67	Near-field microscopy study of propagation and focusing of designer's surface plasmons polaritons at mid-infrared wavelength. , 2011, , .		0
68	Quantum Cascade Lasers with Integrated Multi-Beam Plasmonic Collimators. , 2011, , .		0
69	Mid-infrared direct injection and sub-wavelength focusing of designer's surface plasmons polaritons. , 2011, , .		0
70	Injection of midinfrared surface plasmon polaritons with an integrated device. <i>Applied Physics Letters</i> , 2010, 97, .	1.5	16
71	Large Enhancement of Nonlinear Optical Phenomena by Plasmonic Nanocavity Gratings. <i>Nano Letters</i> , 2010, 10, 4880-4883.	4.5	207
72	Semiconductor Surface Plasmon Sources. <i>Physical Review Letters</i> , 2010, 104, 226806.	2.9	49

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73	Mid-infrared direct coupling of surface-plasmon polaritons. , 2010, , .		0
74	A semiconductor device for surface-plasmon generation. , 2010, , .		0