

Loïc Rondin

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

3,016
citations

394421

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414414

32
g-index

32
all docs

32
docs citations

32
times ranked

3441
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetometry with nitrogen-vacancy defects in diamond. Reports on Progress in Physics, 2014, 77, 056503.	20.1	882
2	Avoiding power broadening in optically detected magnetic resonance of single NV defects for enhanced dc magnetic field sensitivity. Physical Review B, 2011, 84, .	3.2	307
3	Magnetic-field-dependent photodynamics of single NV defects in diamond: an application to qualitative all-optical magnetic imaging. New Journal of Physics, 2012, 14, 103033.	2.9	242
4	Surface-induced charge state conversion of nitrogen-vacancy defects in nanodiamonds. Physical Review B, 2010, 82, .	3.2	233
5	Nanoscale magnetic field mapping with a single spin scanning probe magnetometer. Applied Physics Letters, 2012, 100, .	3.3	177
6	Spin relaxometry of single nitrogen-vacancy defects in diamond nanocrystals for magnetic noise sensing. Physical Review B, 2013, 87, .	3.2	139
7	Stray-field imaging of magnetic vortices with a single diamond spin. Nature Communications, 2013, 4, 2279.	12.8	124
8	Direct measurement of Kramers turnover with a levitated nanoparticle. Nature Nanotechnology, 2017, 12, 1130-1133.	31.5	102
9	Magnetic measurements on micrometer-sized samples under high pressure using designed NV centers. Science, 2019, 366, 1359-1362.	12.6	89
10	Single photon emission from graphene quantum dots at room temperature. Nature Communications, 2018, 9, 3470.	12.8	86
11	Optically levitated nanoparticle as a model system for stochastic bistable dynamics. Nature Communications, 2017, 8, 15141.	12.8	84
12	Negatively Curved Nanographene with Heptagonal and [5]Helicene Units. Journal of the American Chemical Society, 2020, 142, 14814-14819.	13.7	81
13	Macroscopic Quantum Resonators (MAQRO): 2015 update. EPJ Quantum Technology, 2016, 3, .	6.3	77
14	Engineered arrays of nitrogen-vacancy color centers in diamond based on implantation of CN^{\bullet} molecules through nanoapertures. New Journal of Physics, 2011, 13, 025014.	2.9	75
15	Bandgap Engineering of Graphene Nanoribbons by Control over Structural Distortion. Journal of the American Chemical Society, 2018, 140, 7803-7809.	13.7	68
16	Efficient production of NV colour centres in nanodiamonds using high-energy electron irradiation. Journal of Luminescence, 2010, 130, 1655-1658.	3.1	46
17	Fluorescence from graphene nanoribbons of well-defined structure. Carbon, 2017, 119, 235-240.	10.3	30
18	Cancellation of non-conservative scattering forces in optical traps by counter-propagating beams. Optics Letters, 2015, 40, 1900.	3.3	22

#	ARTICLE	IF	CITATIONS
19	Quantitative stray field imaging of a magnetic vortex core. <i>Physical Review B</i> , 2013, 88, .	3.2	20
20	Spin-Mechanics with Nitrogen-Vacancy Centers and Trapped Particles. <i>Micromachines</i> , 2021, 12, 651.	2.9	19
21	Solution-Processed Graphene–Nanographene van der Waals Heterostructures for Photodetectors with Efficient and Ultralong Charge Separation. <i>Journal of the American Chemical Society</i> , 2021, 143, 17109-17116.	13.7	19
22	Optical Magnetometry of Single Biocompatible Micromagnets for Quantitative Magnetogenetic and Magnetomechanical Assays. <i>Nano Letters</i> , 2018, 18, 7635-7641.	9.1	17
23	Temperature dependence of the longitudinal spin relaxation time T_1 of single nitrogen-vacancy centers in nanodiamonds. <i>Physical Review B</i> , 2020, 102, .	3.4	16
24	Optical Investigation of On-Surface Synthesized Armchair Graphene Nanoribbons. <i>Physica Status Solidi (B): Basic Research</i> , 2017, 254, 1700223.	1.5	14
25	Nitrogen-vacancy-center imaging of bubble domains in a 6-Å... film of cobalt with perpendicular magnetization. <i>Journal of Applied Physics</i> , 2014, 115, .	2.5	10
26	Hot Brownian Motion of Optically Levitated Nanodiamonds. <i>ACS Photonics</i> , 2022, 9, 420-425.	6.6	8
27	Vibronic effect and influence of aggregation on the photophysics of graphene quantum dots. <i>Nanoscale</i> , 2022, 14, 3826-3833.	5.6	7
28	Multiangle Reconstruction of Domain Morphology with All-Optical Diamond Magnetometry. <i>Physical Review Applied</i> , 2021, 16, .	3.8	4
29	Vibronic fingerprints in the luminescence of graphene quantum dots at cryogenic temperature. <i>Journal of Chemical Physics</i> , 2022, 156, 104302.	3.0	4
30	Thermometry of an optically levitated nanodiamond. <i>AVS Quantum Science</i> , 2022, 4, .	4.9	4