LoÃ¯c Rondin

List of Publications by Year
in descending order

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30 papers	3,016 citations	394421 19 h-index	414414 32 g-index
32 all docs	32 docs citations	32 times ranked	3441 citing authors

#	Article	IF	Citations
1	Vibronic effect and influence of aggregation on the photophysics of graphene quantum dots. Nanoscale, 2022, 14, 3826-3833.	5.6	7
2	Hot Brownian Motion of Optically Levitated Nanodiamonds. ACS Photonics, 2022, 9, 420-425.	6.6	8
3	Vibronic fingerprints in the luminescence of graphene quantum dots at cryogenic temperature. Journal of Chemical Physics, 2022, 156, 104302.	3.0	4
4	Thermometry of an optically levitated nanodiamond. AVS Quantum Science, 2022, 4, .	4.9	4
5	Spin-Mechanics with Nitrogen-Vacancy Centers and Trapped Particles. Micromachines, 2021, 12, 651.	2.9	19
6	Multiangle Reconstruction of Domain Morphology with All-Optical Diamond Magnetometry. Physical Review Applied, 2021, 16, .	3.8	4
7	Solution-Processed Grapheneâ€“Nanographene van der Waals Heterostructures for Photodetectors with Efficient and Ultralong Charge Separation. Journal of the American Chemical Society, 2021, 143, 17109-17116.	13.7	19
8	Negatively Curved Nanographene with Heptagonal and [5]Helicene Units. Journal of the American Chemical Society, 2020, 142, 14814-14819.	13.7	81
9	Temperature dependence of the longitudinal spin relaxation time <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>T</mml:mi><mml:mn>1</mml:mn></mml:msub></mm of single nitrogen-vacancy centers in nanodiamonds. Physical Review B, 2020, 102, .	3.2	17
10	Magnetic measurements on micrometer-sized samples under high pressure using designed NV centers. Science, 2019, 366, 1359-1362.	12.6	89
11	Optical Magnetometry of Single Biocompatible Micromagnets for Quantitative Magnetogenetic and Magnetomechanical Assays. Nano Letters, 2018, 18, 7635-7641.	9.1	17
12	Bandgap Engineering of Graphene Nanoribbons by Control over Structural Distortion. Journal of the American Chemical Society, 2018, 140, 7803-7809.	13.7	68
13	Single photon emission from graphene quantum dots at room temperature. Nature Communications, 2018, 9, 3470.	12.8	86
14	Fluorescence from graphene nanoribbons of well-defined structure. Carbon, 2017, 119, 235-240.	10.3	30
15	Optically levitated nanoparticle as a model system for stochastic bistable dynamics. Nature Communications, 2017, 8, 15141.	12.8	84
16	Direct measurement of Kramers turnover with a levitated nanoparticle. Nature Nanotechnology, 2017, 12, 1130-1133.	31.5	102
17	Optical Investigation of Onâ€Surface Synthesized Armchair Graphene Nanoribbons. Physica Status Solidi (B): Basic Research, 2017, 254, 1700223.	1.5	14
18	Macroscopic Quantum Resonators (MAQRO): 2015 update. EPJ Quantum Technology, 2016, 3, .	6.3	77

#	Article	IF	Citations
19	Cancellation of non-conservative scattering forces in optical traps by counter-propagating beams. Optics Letters, 2015, 40, 1900.	3.3	22
20	Nitrogen-vacancy-center imaging of bubble domains in a 6-Ã… film of cobalt with perpendicular magnetization. Journal of Applied Physics, 2014, 115, .	2.5	10
21	Magnetometry with nitrogen-vacancy defects in diamond. Reports on Progress in Physics, 2014, 77, 056503.	20.1	882
22	Stray-field imaging of magnetic vortices with a single diamond spin. Nature Communications, 2013, 4, 2279.	12.8	124
23	Spin relaxometry of single nitrogen-vacancy defects in diamond nanocrystals for magnetic noise sensing. Physical Review B, 2013, 87, .	3.2	139
24	Quantitative stray field imaging of a magnetic vortex core. Physical Review B, 2013, 88, .	3.2	20
25	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
26	Nanoscale magnetic field mapping with a single spin scanning probe magnetometer. Applied Physics Letters, 2012, 100, .	3.3	177
27	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
28	Engineered arrays of nitrogen-vacancy color centers in diamond based on implantation of CN^{â^'}molecules through nanoapertures. New Journal of Physics, 2011, 13, 025014.	2.9	75
29	Surface-induced charge state conversion of nitrogen-vacancy defects in nanodiamonds. Physical Review B, 2010, 82, .	3.2	233
30	Efficient production of NV colour centres in nanodiamonds using high-energy electron irradiation. Journal of Luminescence, 2010, 130, 1655-1658.	3.1	46