Lachlan J Rogers

List of Publications by Year
in descending order

35 papers	3,088 citations	304743 22 h-index	395702 33 g-index
36 all docs	36 docs citations	36 times ranked	2465 citing authors

#	Article	IF	Citations
1	Indistinguishable Photons from Separated Silicon-Vacancy Centers in Diamond. Physical Review Letters, 2014, 113, 113602.	7.8	333
2	Germanium-Vacancy Single Color Centers in Diamond. Scientific Reports, 2015, 5, 12882.	3.3	251
3	Multiple intrinsically identical single-photon emitters in the solid state. Nature Communications, 2014, 5, 4739.	12.8	232
4	All-Optical Initialization, Readout, and Coherent Preparation of Single Silicon-Vacancy Spins in Diamond. Physical Review Letters, 2014, 113, 263602.	7.8	216
5	Electronâ€“phonon processes of the silicon-vacancy centre in diamond. New Journal of Physics, 2015, 17, 043011.	2.9	203
6	Observation of the Dynamic Jahn-Teller Effect in the Excited States of Nitrogen-Vacancy Centers in Diamond. Physical Review Letters, 2009, 103, 256404.	7.8	202
7	Low Temperature Studies of the Excited-State Structure of Negatively Charged Nitrogen-Vacancy Color Centers in Diamond. Physical Review Letters, 2009, 102, 195506.	7.8	197
8	Spectroscopy of Surface-Induced Noise Using Shallow Spins in Diamond. Physical Review Letters, 2015, 114, 017601.	7.8	177
9	Electronic structure of the negatively charged silicon-vacancy center in diamond. Physical Review B, 2014, 89, .	3.2	175
10	Excited-state spectroscopy of single NV defects in diamond using optically detected magnetic resonance. New Journal of Physics, 2009, 11, 013017.	2.9	170
11	Infrared emission of the NV centre in diamond: Zeeman and uniaxial stress studies. New Journal of Physics, 2008, 10, 103024.	2.9	125
12	Optical and microwave control of germanium-vacancy center spins in diamond. Physical Review B, 2017, 96, .	3.2	125
13	Qudi: A modular python suite for experiment control and data processing. SoftwareX, 2017, 6, 85-90.	2.6	93
14	Isotopically varying spectral features of silicon-vacancy in diamond. New Journal of Physics, 2014, 16, 113019.	2.9	85
15	Nanodiamonds carrying silicon-vacancy quantum emitters with almost lifetime-limited linewidths. New Journal of Physics, 2016, 18, 073036.	2.9	82
16	Time-averaging within the excited state of the nitrogen-vacancy centre in diamond. New Journal of Physics, 2009, 11, 063007.	2.9	77
17	Array of bright silicon-vacancy centers in diamond fabricated by low-energy focused ion beam implantation. Applied Physics Express, 2014, 7, 115201.	2.4	73
18	Homoepitaxial diamond film growth: High purity, high crystalline quality, isotopic enrichment, and single color center formation. Physica Status Solidi (A) Applications and Materials Science, 2015, 212, 2365-2384.	1.8	68

#	Article	IF	Citations
19	NVâ€“NV electronâ€“electron spin and NVâ€“NS electron â€” electron and electron-nuclear spin interaction in diamond. Physics Procedia, 2010, 3, 1569-1575.	1.2	36
20	Singlet levels of the NV^{âˆ’}centre in diamond. New Journal of Physics, 2015, 17, 013048.	2.9	34
21	Single <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:mi>Si</mml:mi></mml:math> - <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:msup><mml:mi>V</mml:mi><mml:mo>âˆ’</mml:mo></mml:msup></mml:math> Centers in Low-Strain Nanodiamonds with Bulklike Spectral Properties and Nanomanipulation Capabilities. Physical Review Applied, 2019, 11, .	3.8	34
22	Sizeâ€dependent luminescence of color centers in composite nanodiamonds. Physica Status Solidi (A) Applications and Materials Science, 2015, 212, 2600-2605.	1.8	23
23	Amplification by stimulated emission of nitrogen-vacancy centres in a diamond-loaded fibre cavity. Nanophotonics, 2020, 9, 4505-4518.	6.0	18
24	Assignment of the NV<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mn>0</mml:mn></mml:msup></mml:math>575-nm zero-phonon line in diamond to a<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msup><mml:mrow /><mml:mn>2</mml:mn></mml:msup><mml:mi>E</mml:mi></mml:mrow></mml:math>-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msup><mml:m	3.2	12
25	Discovery of ST1 centers in natural diamond. Nanophotonics, 2019, 8, 1993-2002.	6.0	12
26	Hole burningâ€"EIT studies of the NV centre in diamond. Journal of Luminescence, 2010, 130, 1659-1667.	3.1	9
27	How far into the infrared can a colour centre in diamond emit?. Physics Procedia, 2010, 3, 1557-1561.	1.2	9
28	Absorptive laser threshold magnetometry: combining visible diamond Raman lasers and nitrogen-vacancy centres. Materials for Quantum Technology, 2021, 1, 025003.	3.1	6
29	Bayesian estimation of switching rates for blinking emitters. New Journal of Physics, 2019, 21, 063001.	2.9	3
30	Effects of magnetic field on the low temperature emission of nitrogen vacancy centres in diamond. Physics Procedia, 2010, 3, 1583-1589.	1.2	2
31	Intrinsic properties of the NV center in diamond. , 2010, , .		2
32	Observation of the dynamic Jahn-Teller effect in the excited states of nitrogen-vacancy centers in diamond. Proceedings of SPIE, 2010, , .	0.8	1
33	Opportunity of single atom control for quantum processing in silicon and diamond. , 2014, , .		1
34	Robust light-controlled qubits. Nature Photonics, 2016, 10, 147-148.	31.4	1
35	Key challenges for high-Q photonic circuits in diamond. , 2010, , .		0