

Franck Balestro

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

2,983
citations

394286

19
h-index

642610

23
g-index

23
all docs

23
docs citations

23
times ranked

3250
citing authors

#	ARTICLE	IF	CITATIONS
1	Increasing the Hilbert space dimension using a single coupled molecular spin. Nature Communications, 2021, 12, 4443.	5.8	16
2	Microwave-assisted reversal of a single electron spin. Journal of Applied Physics, 2019, 125, 142801.	1.1	9
3	Molecular spin qudits for quantum algorithms. Chemical Society Reviews, 2018, 47, 501-513.	18.7	254
4	Generalized Ramsey interferometry explored with a single nuclear spin qudit. Npj Quantum Information, 2018, 4, .	2.8	25
5	Electrical Read-Out of a Single Spin Using an Exchange-Coupled Quantum Dot. ACS Nano, 2017, 11, 3984-3989.	7.3	50
6	Operating Quantum States in Single Magnetic Molecules: Implementation of Grover's Quantum Algorithm. Physical Review Letters, 2017, 119, 187702.	2.9	256
7	Landau-Zener Transition in a Continuously Measured Single-Molecule Spin Transistor. Physical Review Letters, 2017, 118, 257701.	2.9	20
8	Single-molecule devices with graphene electrodes. Dalton Transactions, 2016, 45, 16570-16574.	1.6	47
9	Electroburning of few-layer graphene flakes, epitaxial graphene, and turbostratic graphene discs in air and under vacuum. Beilstein Journal of Nanotechnology, 2015, 6, 711-719.	1.5	19
10	Electrically driven nuclear spin resonance in single-molecule magnets. Science, 2014, 344, 1135-1138.	6.0	678
11	Electronic read-out of a single nuclear spin using a molecular spin transistor. Nature, 2012, 488, 357-360.	13.7	744
12	An Original Electrochemical Method for Assembling Multilayers of Terpyridine-Based Metallic Complexes on a Gold Surface. Langmuir, 2012, 28, 10916-10924.	1.6	26
13	Universal transport signatures in two-electron molecular quantum dots: gate-tunable Hund's rule, underscreened Kondo effect and quantum phase transitions. Journal of Physics Condensed Matter, 2011, 23, 243202.	0.7	59
14	Observation of the Underscreened Kondo Effect in a Molecular Transistor. Physical Review Letters, 2009, 103, 197202.	2.9	98
15	Superconductivity in a single-C60 transistor. Nature Physics, 2009, 5, 876-879.	6.5	105
16	Out-of-Equilibrium Singlet-Triplet Kondo Effect in a Single C60 Quantum Dot. Journal of Low Temperature Physics, 2008, 153, 350-358.	0.6	7
17	Kondo effects in a C60 single-molecule transistor. Physica Status Solidi (B): Basic Research, 2008, 245, 1994-1997.	0.7	5
18	Quantum phase transition in a single-molecule quantum dot. Nature, 2008, 453, 633-637.	13.7	260

#	ARTICLE	IF	CITATIONS
19	Using a Quantum Dot as a High-Frequency Shot Noise Detector. Physical Review Letters, 2006, 96, 176601.	2.9	123
20	Coherent Oscillations in a Superconducting Multilevel Quantum System. Physical Review Letters, 2004, 93, 187003.	2.9	94
21	One-Shot Quantum Measurement Using a Hysteretic dc SQUID. Physical Review Letters, 2003, 90, 238304.	2.9	32
22	Evidence of Two-Dimensional Macroscopic Quantum Tunneling of a Current-Biased dc SQUID. Physical Review Letters, 2003, 91, 158301.	2.9	36
23	Experimental Evidence of One-Dimensional Plasma Modes in Superconducting Thin Wires. Physical Review Letters, 2001, 86, 480-483.	2.9	20