

Gilles Buchs

List of Publications by Year in descending order

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25
papers

476
citations

759233

12
h-index

752698

20
g-index

26
all docs

26
docs citations

26
times ranked

786
citing authors

#	ARTICLE	IF	CITATIONS
1	Growth and characterization of single quantum dots emitting at 1300 nm. Applied Physics Letters, 2005, 86, 101908.	3.3	153
2	Fast and Efficient Photodetection in Nanoscale Quantum-Dot Junctions. Nano Letters, 2012, 12, 5740-5743.	9.1	51
3	Modifying the electronic structure of semiconducting single-walled carbon nanotubes by Ar ⁺ ion irradiation. Physical Review B, 2009, 79, .	3.2	42
4	Creation of paired electron states in the gap of semiconducting carbon nanotubes by correlated hydrogen adsorption. New Journal of Physics, 2007, 9, 275-275.	2.9	33
5	Ultra-low phase-noise microwave generation using a diode-pumped solid-state laser based frequency comb and a polarization-maintaining pulse interleaver. Optics Express, 2015, 23, 32441.	3.4	27
6	Scanning tunneling microscopy investigations of hydrogen plasma-induced electron scattering centers on single-walled carbon nanotubes. Applied Physics Letters, 2007, 90, 013104.	3.3	20
7	Electron Scattering in Intrananotube Quantum Dots. Physical Review Letters, 2009, 102, 245505.	7.8	19
8	Synthesis of Quantum Antennas for Shaping Field Correlations. Physical Review Applied, 2018, 9, .	3.8	18
9	Radiation hard mode-locked laser suitable as a spaceborne frequency comb. Optics Express, 2015, 23, 9890.	3.4	17
10	Defect-induced multicomponent electron scattering in single-walled carbon nanotubes. Physical Review B, 2011, 83, .	3.2	16
11	Imaging the formation of a p-n junction in a suspended carbon nanotube with scanning photocurrent microscopy. Journal of Applied Physics, 2011, 110, .	2.5	15
12	Defect-induced negative differential resistance in single-walled carbon nanotubes. Applied Physics Letters, 2008, 93, 073115.	3.3	14
13	Efficient carrier-envelope offset frequency stabilization through gain modulation via stimulated emission. Optics Letters, 2016, 41, 376.	3.3	12
14	Identifying signatures of photothermal current in a double-gated semiconducting nanotube. Nature Communications, 2014, 5, 4987.	12.8	11
15	Repetition rate stabilization of an optical frequency comb based on solid-state laser technology with an intra-cavity electro-optic modulator. Optics Express, 2017, 25, 2215.	3.4	8
16	Confined electron and hole states in semiconducting carbon nanotube sub-10 nm artificial quantum dots. Carbon, 2018, 132, 304-311.	10.3	5
17	Metallic carbon nanotube quantum dots with broken symmetries as a platform for tunable terahertz detection. Applied Physics Reviews, 2021, 8, .	11.3	5
18	MEMS atomic vapor cells for gyroscope applications. , 2017, , .		4

#	ARTICLE	IF	CITATIONS
19	Creation and STM/STS investigations of hydrogen ions induced defects on single-walled carbon nanotubes. Journal of Physics: Conference Series, 2007, 61, 160-165.	0.4	1
20	Shaping field correlation with entangled quantum antennas. , 2017, , .		1
21	Nuclear spin decoherence time in MEMS atomic vapor cells for applications in quantum technologies. AIP Conference Proceedings, 2018, , .	0.4	1
22	Compact UAV compatible broadband 2D Spectrometer for multi-species atmospheric gas analysis. , 2019, , .		1
23	9.6 GHz ultra-low phase noise signal generation from a diode-pumped solid-state laser. , 2015, , .		0
24	Certification of spin-based quantum simulators. Physical Review A, 2020, 101, .	2.5	0
25	Compact, UAV compatible, broadband, uncooled Spectrometer for multi-species atmospheric gas analysis. , 2020, , .		0