

Thierry Chaneleire

List of Publications by Year in descending order

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41
papers

1,895
citations

430874

18
h-index

276875

41
g-index

42
all docs

42
docs citations

42
times ranked

1269
citing authors

#	ARTICLE	IF	CITATIONS
1	Storage and retrieval of single photons transmitted between remote quantum memories. <i>Nature</i> , 2005, 438, 833-836.	27.8	666
2	Photon echo quantum memory in solid state systems. <i>Laser and Photonics Reviews</i> , 2010, 4, 244-267.	8.7	351
3	Highly multimode storage in a crystal. <i>New Journal of Physics</i> , 2011, 13, 013013.	2.9	112
4	Revival of silenced echo and quantum memory for light. <i>New Journal of Physics</i> , 2011, 13, 093031.	2.9	99
5	Why the two-pulse photon echo is not a good quantum memory protocol. <i>Physical Review A</i> , 2009, 79, .	2.5	70
6	Large efficiency at telecom wavelength for optical quantum memories. <i>Optics Letters</i> , 2014, 39, 2711.	3.3	48
7	Quantum Interference of Electromagnetic Fields from Remote Quantum Memories. <i>Physical Review Letters</i> , 2007, 98, 113602.	7.8	44
8	Twenty-three millisecond electron spin coherence of erbium ions in a natural-abundance crystal. <i>Science Advances</i> , 2021, 7, eabj9786.	10.3	42
9	RF Spectrum Analyzer for Pulsed Signals: Ultra-Wide Instantaneous Bandwidth, High Sensitivity, and High Time-Resolution. <i>Journal of Lightwave Technology</i> , 2016, 34, 4658-4663.	4.6	38
10	Observation of ultra-narrow electromagnetically induced transparency and slow light using purely electronic spins in a hot atomic vapor. <i>Europhysics Letters</i> , 2008, 82, 54002.	2.0	33
11	Slow light using spectral hole burning in a Tm^{3+} yttrium-aluminum-garnet crystal. <i>Physical Review A</i> , 2009, 79, .	2.5	25
12	Selective Optical Addressing of Nuclear Spins through Superhyperfine Interaction in Rare-Earth Doped Solids. <i>Physical Review Letters</i> , 2018, 120, 197401.	7.8	24
13	Light storage protocols in $Tm:YAG$. <i>Journal of Luminescence</i> , 2010, 130, 1572-1578.	3.1	21
14	Photon echo with a few photons in two-level atoms. <i>Laser Physics</i> , 2014, 24, 094003.	1.2	21
15	Multimode Storage of Quantum Microwave Fields in Electron Spins over 100 fs. <i>Physical Review Letters</i> , 2020, 125, 210505.	7.8	21
16	Light-shift-modulated photon-echo. <i>Optics Letters</i> , 2015, 40, 1294.	3.3	20
17	Effects of disorder on optical and electron spin linewidths in $Er^{3+}, Sc^{3+}:Y_2SiO_5$. <i>Optical Materials</i> , 2017, 63, 69-75.	3.6	20
18	Dual-Species Matter Qubit Entangled with Light. <i>Physical Review Letters</i> , 2007, 98, 123602.	7.8	19

#	ARTICLE	IF	CITATIONS
19	Spectral hole burning for stopping light. <i>Physical Review A</i> , 2009, 79, .	2.5	18
20	Ultrasound-modulated optical tomography in scattering media: flux filtering based on persistent spectral hole burning in the optical diagnosis window. <i>Optics Letters</i> , 2018, 43, 3993.	3.3	17
21	Quantum Optical Memory Protocols in Atomic Ensembles. <i>Advances in Atomic, Molecular and Optical Physics</i> , 2018, , 77-150.	2.3	16
22	Atomic frequency comb storage as a slow-light effect. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2012, 45, 124002.	1.5	13
23	Securing coherence rephasing with a pair of adiabatic rapid passages. <i>New Journal of Physics</i> , 2013, 15, 055024.	2.9	13
24	Optical study of the anisotropic erbium spin flip-flop dynamics. <i>Physical Review B</i> , 2019, 100, .	3.2	13
25	Piezospectroscopic measurement of high-frequency vibrations in a pulse-tube cryostat. <i>Review of Scientific Instruments</i> , 2019, 90, 034901.	1.3	13
26	Strong excitation of emitters in an impedance matched cavity: the area theorem, ĩ-pulse and self-induced transparency. <i>Optics Express</i> , 2014, 22, 4423.	3.4	12
27	Emission of photon echoes in a strongly scattering medium. <i>Optics Express</i> , 2011, 19, 15236.	3.4	11
28	Spectral-hole memory for light at the single-photon level. <i>Physical Review A</i> , 2016, 93, .	2.5	11
29	Optical measurement of heteronuclear cross-relaxation interactions in Tm:YAG. <i>Physical Review B</i> , 2015, 92, .	3.2	10
30	Quantum memory in an orthogonal geometry of silenced echo retrieval. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2017, 123, 211-216.	0.6	9
31	Supernarrow induced photon-echo collapse of erbium in Y_2SiO_5 . <i>Physical Review B</i> , 2020, 102, .	3.1	9
32	Two-pulse photon echo area theorem in an optically dense medium. <i>Optics Express</i> , 2019, 27, 28983.	3.4	9
33	Hyperfine spectroscopy in a quantum-limited spectrometer. <i>Magnetic Resonance</i> , 2020, 1, 315-330.	1.9	9
34	Light transport in cold atoms: the fate of coherent backscattering in the weak localization regime. <i>Physica B: Condensed Matter</i> , 2003, 328, 157-162.	2.7	8
35	Quantum memory with a controlled homogeneous splitting. <i>New Journal of Physics</i> , 2013, 15, 045015.	2.9	8
36	Coherent response to optical excitation in a strongly absorbing rare-earth ion-doped crystal. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2010, 27, 32.	2.1	7

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37	Phase-space-density limitation in laser cooling without spontaneous emission. Physical Review A, 2018, 98, .	2.5	4
38	Stimulated optical pumping in a Tm ³⁺ :YAG crystal. Journal of Physics Condensed Matter, 2007, 19, 386226.	1.8	3
39	Thulium doped crystals for quantum information storage. Journal of Luminescence, 2009, 129, 1951-1954.	3.1	3
40	Demonstration of site-selective angular-resolved absorption spectroscopy of the Si^{4+} ions in CaF_2 crystals. Optical Materials X, 2020, 8, 100062.	0.8	3
41	Limits to the sensitivity of a rare-earth-enabled cryogenic vibration sensor. AVS Quantum Science, 2022, 4, 024401.	4.9	1