

# 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	Limits to the sensitivity of a rare-earth-enabled cryogenic vibration sensor. AVS Quantum Science, 2022, 4, 024401.	4.9	1
2	Twenty-threeâ€“millisecond electron spin coherence of erbium ions in a natural-abundance crystal. Science Advances, 2021, 7, eabj9786.	10.3	42
3	Demonstration of site-selective angular-resolved absorption spectroscopy of the $\text{Er}^{3+}$ ions in $\text{Y}_2\text{SiO}_5$ . Optical Materials: X, 2020, 8, 100062.	0.8	3
4	Multimode Storage of Quantum Microwave Fields in Electron Spins over 100Âµs. Physical Review Letters, 2020, 125, 210505.	7.8	21
5	Superhyperfine induced photon-echo collapse of erbium in $\text{Y}_2\text{SiO}_5$ . Physical Review B, 2020, 102, .	3.1	9
6	Hyperfine spectroscopy in a quantum-limited spectrometer. Magnetic Resonance, 2020, 1, 315-330.	1.9	9
7	Optical study of the anisotropic erbium spin flip-flop dynamics. Physical Review B, 2019, 100, .	3.2	13
8	Piezospectroscopic measurement of high-frequency vibrations in a pulse-tube cryostat. Review of Scientific Instruments, 2019, 90, 034901.	1.3	13
9	Two-pulse photon echo area theorem in an optically dense medium. Optics Express, 2019, 27, 28983.	3.4	9
10	Phase-space-density limitation in laser cooling without spontaneous emission. Physical Review A, 2018, 98, .	2.5	4
11	Selective Optical Addressing of Nuclear Spins through Superhyperfine Interaction in Rare-Earth Doped Solids. Physical Review Letters, 2018, 120, 197401.	7.8	24
12	Ultrasound-modulated optical tomography in scattering media: flux filtering based on persistent spectral hole burning in the optical diagnosis window. Optics Letters, 2018, 43, 3993.	3.3	17
13	Quantum Optical Memory Protocols in Atomic Ensembles. Advances in Atomic, Molecular and Optical Physics, 2018, , 77-150.	2.3	16
14	Quantum memory in an orthogonal geometry of silenced echo retrieval. Optics and Spectroscopy (English Translation of Optika i Spektroskopiya), 2017, 123, 211-216.	0.6	9
15	Effects of disorder on optical and electron spin linewidths in $\text{Er}^{3+}$ , $\text{Sc}^{3+}$ : $\text{Y}_2\text{SiO}_5$ . Optical Materials, 2017, 63, 69-75.	3.6	20
16	RF Spectrum Analyzer for Pulsed Signals: Ultra-Wide Instantaneous Bandwidth, High Sensitivity, and High Time-Resolution. Journal of Lightwave Technology, 2016, 34, 4658-4663.	4.6	38
17	Spectral-hole memory for light at the single-photon level. Physical Review A, 2016, 93, .	2.5	11
18	Optical measurement of heteronuclear cross-relaxation interactions in $\text{Tm}:\text{YAG}$ . Physical Review B, 2015, 92, .	3.2	10

#	ARTICLE	IF	CITATIONS
19	Light-shift-modulated photon-echo. <i>Optics Letters</i> , 2015, 40, 1294.	3.3	20
20	Photon echo with a few photons in two-level atoms. <i>Laser Physics</i> , 2014, 24, 094003.	1.2	21
21	Large efficiency at telecom wavelength for optical quantum memories. <i>Optics Letters</i> , 2014, 39, 2711.	3.3	48
22	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
23	Quantum memory with a controlled homogeneous splitting. <i>New Journal of Physics</i> , 2013, 15, 045015.	2.9	8
24	Securing coherence rephasing with a pair of adiabatic rapid passages. <i>New Journal of Physics</i> , 2013, 15, 055024.	2.9	13
25	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
26	Emission of photon echoes in a strongly scattering medium. <i>Optics Express</i> , 2011, 19, 15236.	3.4	11
27	Revival of silenced echo and quantum memory for light. <i>New Journal of Physics</i> , 2011, 13, 093031.	2.9	99
28	Highly multimode storage in a crystal. <i>New Journal of Physics</i> , 2011, 13, 013013.	2.9	112
29	PhotonĀecho quantum memory in solid state systems. <i>Laser and Photonics Reviews</i> , 2010, 4, 244-267.	8.7	351
30	Light storage protocols in Tm:YAG. <i>Journal of Luminescence</i> , 2010, 130, 1572-1578.	3.1	21
31	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
32	Slow light using spectral hole burning in a $\text{Tm}^{3+}$ yttrium-aluminum-garnet crystal. <i>Physical Review A</i> , 2009, 79, .	2.5	25
33	Why the two-pulse photon echo is not a good quantum memory protocol. <i>Physical Review A</i> , 2009, 79, .	2.5	70
34	Thulium doped crystals for quantum information storage. <i>Journal of Luminescence</i> , 2009, 129, 1951-1954.	3.1	3
35	Spectral hole burning for stopping light. <i>Physical Review A</i> , 2009, 79, .	2.5	18
36	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

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37	Stimulated optical pumping in a Tm <sup>3+</sup> :YAG crystal. Journal of Physics Condensed Matter, 2007, 19, 386226.	1.8	3
38	Quantum Interference of Electromagnetic Fields from Remote Quantum Memories. Physical Review Letters, 2007, 98, 113602.	7.8	44
39	Dual-Species Matter Qubit Entangled with Light. Physical Review Letters, 2007, 98, 123602.	7.8	19
40	Storage and retrieval of single photons transmitted between remote quantum memories. Nature, 2005, 438, 833-836.	27.8	666
41	Light transport in cold atoms: the fate of coherent backscattering in the weak localization regime. Physica B: Condensed Matter, 2003, 328, 157-162.	2.7	8