

# Anne Louchet-Chauvet

## List of Publications by Year in descending order

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Version: 2024-02-01

48  
papers

915  
citations

623188

14  
h-index

454577

30  
g-index

49  
all docs

49  
docs citations

49  
times ranked

907  
citing authors

#	ARTICLE	IF	CITATIONS
1	The influence of transverse motion within an atomic gravimeter. <i>New Journal of Physics</i> , 2011, 13, 065025.	1.2	178
2	Entanglement-assisted atomic clock beyond the projection noise limit. <i>New Journal of Physics</i> , 2010, 12, 065032.	1.2	135
3	Revival of silenced echo and quantum memory for light. <i>New Journal of Physics</i> , 2011, 13, 093031.	1.2	99
4	Experimental tailoring of a three-level system in Tm <sup>3+</sup> :YAG. <i>Physical Review B</i> , 2006, 73, .	1.1	54
5	Large efficiency at telecom wavelength for optical quantum memories. <i>Optics Letters</i> , 2014, 39, 2711.	1.7	48
6	Branching ratio measurement of a system in Tm <sup>3+</sup> :YAG under a magnetic field. <i>Physical Review B</i> , 2007, 75, .	1.1	44
7	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.	2.7	38
8	Optical excitation of nuclear spin coherence in a $Tm^{3+}$ system. <i>Physical Review B</i> , 2008, 77, .	1.1	30
9	Optical memory bandwidth and multiplexing capacity in the erbium telecommunication window. <i>New Journal of Physics</i> , 2015, 17, 023031.	1.2	25
10	Selective Optical Addressing of Nuclear Spins through Superhyperfine Interaction in Rare-Earth Doped Solids. <i>Physical Review Letters</i> , 2018, 120, 197401.	2.9	24
11	Photon echo with a few photons in two-level atoms. <i>Laser Physics</i> , 2014, 24, 094003.	0.6	21
12	Effects of disorder on optical and electron spin linewidths in Er <sup>3+</sup> , Sc <sup>3+</sup> :Y <sub>2</sub> SiO <sub>5</sub> . <i>Optical Materials</i> , 2017, 63, 69-75.	1.7	20
13	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.	1.7	17
14	Stimulated Raman adiabatic passage in a $Tm^{3+}$ system. <i>Physical Review B</i> , 2008, 78, .	1.1	13
15	Scandium doped Tm:YAG ceramics and single crystals: Coherent and high resolution spectroscopy. <i>Journal of Luminescence</i> , 2018, 194, 116-122.	1.5	15
16	Optical study of the anisotropic erbium spin flip-flop dynamics. <i>Physical Review B</i> , 2019, 100, .	1.1	13
17	Piezospectroscopic measurement of high-frequency vibrations in a pulse-tube cryostat. <i>Review of Scientific Instruments</i> , 2019, 90, 034901.	0.6	13
18	Structured ultrasound-modulated optical tomography. <i>Applied Optics</i> , 2019, 58, 1933.	0.9	13

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19	Comparison of 3 Absolute Gravimeters Based on Different Methods for the e-MASS Project. IEEE Transactions on Instrumentation and Measurement, 2011, 60, 2527-2532.	2.4	12
20	Optical measurement of heteronuclear cross-relaxation interactions in Tm:YAG. Physical Review B, 2015, 92, .	1.1	10
21	Interlaced spin grating for optical wave filtering. Physical Review A, 2015, 91, .	1.0	9
22	Quantum memory in an orthogonal geometry of silenced echo retrieval. Optics and Spectroscopy (English Translation of Optika i Spektroskopiya), 2017, 123, 211-216.	0.2	9
23	Two-pulse photon echo area theorem in an optically dense medium. Optics Express, 2019, 27, 28983.	1.7	9
24	Hyperfine structure of Tm <sup>3+</sup> in YAG for quantum storage applications. Optical Materials, 2006, 28, 649-654.	1.7	8
25	Adiabatic passage with spin locking in Tm <sup>3+</sup> :YAG. Physical Review B, 2012, 86, .	1.1	8
26	Squeezing of atomic quantum projection noise. Journal of Modern Optics, 2009, 56, 1993-1998.	0.6	6
27	Time reversal of light by linear dispersive filtering near atomic resonance. New Journal of Physics, 2013, 15, 063037.	1.2	5
28	Tailoring the 3F <sub>4</sub> level lifetime in Tm <sup>3+</sup> :Y <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> by Eu <sup>3+</sup> co-doping for signal processing application. Journal of Luminescence, 2020, 222, 117107.	1.5	5
29	Quantum storage in rare-earth-doped crystals for secure networks. Journal of Luminescence, 2007, 122-123, 526-528.	1.5	4
30	Coherent Raman Beats in. Journal of Luminescence, 2007, 127, 89-93.	1.5	4
31	20 GHz instantaneous bandwidth RF spectrum analyzer with high time-resolution. , 2014, , .		4
32	Stimulated optical pumping in a Tm <sup>3+</sup> :YAG crystal. Journal of Physics Condensed Matter, 2007, 19, 386226.	0.7	3
33	Thulium doped crystals for quantum information storage. Journal of Luminescence, 2009, 129, 1951-1954.	1.5	3
34	Optical investigation of nuclear spin coherence in Tm:YAG. Solid State Sciences, 2008, 10, 1374-1378.	1.5	2
35	High-resolution large dynamic range spectral filtering at 800 nm using Tm:YAG crystals. Proceedings of SPIE, 2011, , .	0.8	2
36	Realization of the revival of silenced echo (ROSE) quantum memory scheme in orthogonal geometry. AIP Conference Proceedings, 2018, , .	0.3	2

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37	Telecom wavelength optical processor for wideband spectral analysis of radiofrequency signals. <i>Laser Physics</i> , 2020, 30, 066203.	0.6	2
38	Continuous g monitoring with atom interferometry. , 2011, , .		1
39	Analog time-reversal of optically-carried RF signals with a rare earth ion-doped processor with broadband potential. , 2018, , .		1
40	Rate equation reformulation including coherent excitation: application to periodic protocols based on spectral hole-burning. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2018, 35, 1260.	0.9	1
41	High rejection photonic RF filter using a thulium doped crystal. , 2021, , .		1
42	Limits to the sensitivity of a rare-earth-enabled cryogenic vibration sensor. <i>AVS Quantum Science</i> , 2022, 4, 024401.	1.8	1
43	Hole burning study of Tm <sup>3+</sup> :YAG hyperfine structure for quantum storage applications. <i>Journal of Luminescence</i> , 2006, 119-120, 293-297.	1.5	0
44	Solid state atomic processors for light. <i>Journal of the European Optical Society-Rapid Publications</i> , 0, 3, .	0.9	0
45	High-Sensitivity Absolute Atomic Gravimeter. , 2012, , .		0
46	Efficient Storage at Telecom Wavelength for Optical Quantum Memory. , 2014, , .		0
47	Photon echo area theorem for Gaussian laser beams. <i>AIP Conference Proceedings</i> , 2018, , .	0.3	0
48	Deep and persistent spectral holes in thulium-doped yttrium orthosilicate for imaging applications. <i>Physical Review B</i> , 2019, 99, .	1.1	0