Anne Louchet-Chauvet

List of Publications by Year
in descending order

48	915	623574 14	454834 30
papers	citations	h-index	g-index

49	49	49	907
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Limits to the sensitivity of a rare-earth-enabled cryogenic vibration sensor. AVS Quantum Science, 2022, 4, 024401.	1.8	1
2	High rejection photonic RF filter using a thulium doped crystal. , 2021, , .		1
3	Tailoring the 3F4 level lifetime in Tm3+: Y3Al5O12 by Eu3+ co-doping for signal processing application. Journal of Luminescence, 2020, 222, 117107.	1.5	5
4	Telecom wavelength optical processor for wideband spectral analysis of radiofrequency signals. Laser Physics, 2020, 30, 066203.	0.6	2
5	Optical study of the anisotropic erbium spin flip-flop dynamics. Physical Review B, 2019, 100, .	1.1	13
6	Deep and persistent spectral holes in thulium-doped yttrium orthosilicate for imaging applications. Physical Review B, 2019, 99, .	1.1	0
7	Piezospectroscopic measurement of high-frequency vibrations in a pulse-tube cryostat. Review of Scientific Instruments, 2019, 90, 034901.	0.6	13
8	Two-pulse photon echo area theorem in an optically dense medium. Optics Express, 2019, 27, 28983.	1.7	9
9	Structured ultrasound-modulated optical tomography. Applied Optics, 2019, 58, 1933.	0.9	13
10	Scandium doped Tm:YAG ceramics and single crystals: Coherent and high resolution spectroscopy. Journal of Luminescence, 2018, 194, 116-122.	1.5	15
11	Analog time-reversal of optically-carried RF signals with a rare earth ion-doped processor with broadband potential. , 2018, , .		1
12	Realization of the revival of silenced echo (ROSE) quantum memory scheme in orthogonal geometry. AIP Conference Proceedings, 2018, , .	0.3	2
13	Selective Optical Addressing of Nuclear Spins through Superhyperfine Interaction in Rare-Earth Doped Solids. Physical Review Letters, 2018, 120, 197401.	2.9	24
14	Rate equation reformulation including coherent excitation: application to periodic protocols based on spectral hole-burning. Journal of the Optical Society of America B: Optical Physics, 2018, 35, 1260.	0.9	1
15	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.	1.7	17
16	Photon echo area theorem for Gaussian laser beams. AIP Conference Proceedings, 2018, , .	0.3	0
17	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
18	Effects of disorder on optical and electron spin linewidths in Er 3+ ,Sc 3+ :Y 2 SiO 5. Optical Materials, 2017, 63, 69-75.	1.7	20

#	Article	IF	Citations
19	RF Spectrum Analyzer for Pulsed Signals: Ultra-Wide Instantaneous Bandwidth, High Sensitivity, and High Time-Resolution. Journal of Lightwave Technology, 2016, 34, 4658-4663.	2.7	38
20	Optical measurement of heteronuclear cross-relaxation interactions in Tm:YAG. Physical Review B, 2015, 92, .	1.1	10
21	Optical memory bandwidth and multiplexing capacity in the erbium telecommunication window. New Journal of Physics, 2015, 17, 023031.	1.2	25
22	Interlaced spin grating for optical wave filtering. Physical Review A, 2015, 91, .	1.0	9
23	20 GHz instantaneous bandwidth RF spectrum analyzer with high time-resolution. , 2014, , .		4
24	Photon echo with a few photons in two-level atoms. Laser Physics, 2014, 24, 094003.	0.6	21
25	Large efficiency at telecom wavelength for optical quantum memories. Optics Letters, 2014, 39, 2711.	1.7	48
26	Efficient Storage at Telecom Wavelength for Optical Quantum Memory. , 2014, , .		0
27	Time reversal of light by linear dispersive filtering near atomic resonance. New Journal of Physics, 2013, 15, 063037.	1.2	5
28	High-Sensitivity Absolute Atomic Gravimeter. , 2012, , .		0
29	Adiabatic passage with spin locking in Tm<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mrow><mml:mn>3</mml:mn><mml:mo>+</mml:mo></mml:mrow></mml:msup></mml:math>:YAG. Physical Review B, 2012, 86, .	1.1	8
30	The influence of transverse motion within an atomic gravimeter. New Journal of Physics, 2011, 13, 065025.	1.2	178
31	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
32	Revival of silenced echo and quantum memory for light. New Journal of Physics, 2011, 13, 093031.	1.2	99
33	High-resolution large dynamic range spectral filtering at 800 nm using Tm:YAG crystals. Proceedings of SPIE, 2011, , .	0.8	2
34	Continuous g monitoring with atom interferometry. , 2011, , .		1
35	Entanglement-assisted atomic clock beyond the projection noise limit. New Journal of Physics, 2010, 12, 065032.	1.2	135
36	Squeezing of atomic quantum projection noise. Journal of Modern Optics, 2009, 56, 1993-1998.	0.6	6

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37	Thulium doped crystals for quantum information storage. Journal of Luminescence, 2009, 129, 1951-1954.	1.5	3
38	Optical investigation of nuclear spin coherence in Tm:YAG. Solid State Sciences, 2008, 10, 1374-1378.	1.5	2
39	Optical excitation of nuclear spin coherence in a<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msup><mml:mrow><mml:mtext>Tm</mml:mtext></mml:mrow><mml:mrow><mml:mn>3</mml:m Physical Review B, 2008, 77, .	1.1	30
40	Stimulated Raman adiabatic passage in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msup><mml:mrow><mml:mtext>Tm</mml:mtext></mml:mrow><mml:mrow><mml:mn Physical Review B, 2008, 78, .	1.1	13
41	Stimulated optical pumping in a Tm3+:YAG crystal. Journal of Physics Condensed Matter, 2007, 19, 386226.	0.7	3
42	Branching ratio measurement of aΛsystem inTm3+:YAGunder a magnetic field. Physical Review B, 2007, 75, .	1.1	44
43	Quantum storage in rare-earth-doped crystals for secure networks. Journal of Luminescence, 2007, 122-123, 526-528.	1.5	4
44	Coherent Raman Beats in. Journal of Luminescence, 2007, 127, 89-93.	1.5	4
45	Hyperfine structure of Tm3+ in YAG for quantum storage applications. Optical Materials, 2006, 28, 649-654.	1.7	8
46	Hole burning study of Tm3+:YAG hyperfine structure for quantum storage applications. Journal of Luminescence, 2006, 119-120, 293-297.	1.5	0
47	Experimental tailoring of a three-levelΛsystem inTm3+:YAG. Physical Review B, 2006, 73, .	1.1	54
48	Solid state atomic processors for light. Journal of the European Optical Society-Rapid Publications, 0, 3, .	0.9	0