

Anne Amy-Klein

List of Publications by Year in descending order

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130
papers

3,751
citations

147801

31
h-index

128289

60
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131
all docs

131
docs citations

131
times ranked

1589
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparing ultrastable lasers at 7×10^{17} fractional frequency instability through a 2220 km optical fibre network. Nature Communications, 2022, 13, 212.	12.8	27
2	Limitations due to residual interference in a fiber-based optical frequency reference at 1.55 μm . Journal of the Optical Society of America B: Optical Physics, 2022, 39, 438.	2.1	5
3	An accurate and robust metrological network for coherent optical frequency dissemination. New Journal of Physics, 2021, 23, 053027.	2.9	29
4	Polarization Scramblers to Solve Practical Limitations of Frequency Transfer. Journal of Lightwave Technology, 2021, 39, 3106-3111.	4.6	3
5	Non-reciprocity in optical fiber links: experimental evidence. Optics Express, 2021, 29, 17476.	3.4	10
6	Search for transient variations of the fine structure constant and dark matter using fiber-linked optical atomic clocks. New Journal of Physics, 2020, 22, 093010.	2.9	67
7	Mise en Pratique of the New Kelvin Using Doppler Broadening Thermometry with a Direct Link to the Primary Frequency Standards. , 2020, , .		0
8	Unidirectional two-way optical frequency comparison and its fundamental limitations. Optics Letters, 2020, 45, 6074.	3.3	3
9	High-Precision Mid-Infrared Spectroscopy with a Widely Tuneable SI-Traceable Frequency-Comb-Stabilised QCL. , 2019, , .		0
10	A new experiment to test parity symmetry in cold chiral molecules using vibrational spectroscopy. Quantum Electronics, 2019, 49, 288-292.	1.0	31
11	CLONETS “ Clock Network Services : Optical-fibre network for clock services in Europe: recent progress. , 2019, , .		0
12	Combining fiber Brillouin amplification with a repeater laser station for fiber-based optical frequency dissemination over 1400 km. New Journal of Physics, 2019, 21, 123017.	2.9	15
13	REFIMEVE+: Optical Frequency Dissemination Over 2x1300 km of a Telecom Network. , 2019, , .		1
14	Two-Branch Fiber Link for International Clock Networks. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 2195-2200.	4.7	9
15	Reciprocity of propagation in optical fiber links demonstrated to 10^{21} . Optics Express, 2019, 27, 36965.	3.4	11
16	High-precision methanol spectroscopy with a widely tunable SI-traceable frequency-comb-based mid-infrared QCL. Optica, 2019, 6, 411.	9.3	38
17	The CLONETS “ Clock Network Services: Strategy and innovation for clock services over optical-fibre networks. , 2019, , .		0
18	High-Precision Mid-IR Molecular Spectroscopy with Traceability to Primary Standards. , 2018, , .		0

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19	REFIMEVE+: Towards a Wide Optical Fiber Network for Optical Frequency Standard Dissemination. , 2018, , .		0
20	Two-Branch Fiber Links for International Clock Networks. , 2018, , .		0
21	Studying the fundamental limit of optical fiber links to the 10^{-21} level. Optics Express, 2018, 26, 9515.	3.4	24
22	The H2020 European project CLONETS: Clock services over optical-fibre networks in Europe. , 2018, , .		0
23	First industrial-grade coherent fiber link for optical frequency standard dissemination. Applied Optics, 2018, 57, 7203.	1.8	32
24	The H2020 Project CLONETS: Clock Services over Optical-fibre Networks in Europe. , 2018, , .		2
25	Hybrid fiber links for accurate optical frequency comparison. Applied Physics B: Lasers and Optics, 2017, 123, 1.	2.2	26
26	First international comparison of fountain primary frequency standards via a long distance optical fiber link. Metrologia, 2017, 54, 348-354.	1.2	64
27	CLONETS - clock network services: Strategy and innovation for clock services over optical-fibre networks. , 2017, , .		4
28	Test of Special Relativity Using a Fiber Network of Optical Clocks. Physical Review Letters, 2017, 118, 221102.	7.8	155
29	Frequency comb-assisted QCL stabilization for high resolution molecular spectroscopy. , 2017, , .		0
30	CLONETS – Clock network services strategy and innovation for clock services over optical-fibre networks. , 2017, , .		3
31	Hybrid optical link for ultra-stable frequency comparison. , 2017, , .		0
32	Progress on the REFIMEVE+ project for optical frequency standard dissemination. , 2017, , .		5
33	Precise molecular spectroscopy using a stable and tuneable frequency comb. , 2017, , .		0
34	Ultrastable optical frequency dissemination on a multi-access fibre network. Applied Physics B: Lasers and Optics, 2016, 122, 1.	2.2	14
35	A clock network for geodesy and fundamental science. Nature Communications, 2016, 7, 12443.	12.8	297
36	Cascaded optical fiber link using the internet network for remote clocks comparison. Optics Express, 2015, 23, 33927.	3.4	71

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37	Quantum cascade laser frequency stabilization at the sub-Hz level. <i>Nature Photonics</i> , 2015, 9, 456-460.	31.4	120
38	Quantum cascade laser stabilization at sub-Hz-level by use of a frequency comb and an optical link. , 2015, , .		0
39	Frequency and time transfer for metrology and beyond using telecommunication network fibres. <i>Comptes Rendus Physique</i> , 2015, 16, 531-539.	0.9	48
40	Cascaded optical link on a telecommunication fiber network for ultra-stable frequency dissemination. , 2015, , .		2
41	Tackling the limits of optical fiber links. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2015, 32, 787.	2.1	44
42	Two-way optical frequency comparisons at 5×10^{-15} level over 100-km telecommunication network fibers. <i>Physical Review A</i> , 2014, 90, .	2.5	25
43	A widely tunable 10^{-4} m quantum cascade laser phase-locked to a state-of-the-art mid-infrared reference for precision molecular spectroscopy. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	44
44	In-line extraction of an ultrastable frequency signal over an optical fiber link. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2014, 31, 678.	2.1	43
45	Quantum cascade laser at Hz-level by use of a frequency comb and an optical link. , 2014, , .		0
46	Progress on a cascaded optical link between Paris and Strasbourg. , 2014, , .		0
47	Ultra-stable Mid-IR quantum cascade laser for high-resolution spectroscopy and metrology. , 2014, , .		0
48	In-line extraction of an ultra-stable frequency signal over an optical fiber link. , 2014, , .		0
49	Simultaneous remote transfer of accurate timing and optical frequency over a public fiber network. <i>Applied Physics B: Lasers and Optics</i> , 2013, 110, 3-6.	2.2	130
50	Probing weak force-induced parity violation by high-resolution mid-infrared molecular spectroscopy. <i>Molecular Physics</i> , 2013, 111, 2363-2373.	1.7	69
51	Mid-infrared laser phase-locking to a remote near-infrared frequency reference for high-precision molecular spectroscopy. <i>New Journal of Physics</i> , 2013, 15, 073003.	2.9	29
52	Towards large scale metrological fibre network. , 2013, , .		0
53	Simultaneous remote transfer of accurate timing and optical frequency over a public fiber network. , 2013, , .		6
54	Mid-IR frequency control using an optical frequency comb and a remote near-infrared frequency reference. , 2013, , .		0

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55	Quantum cascade laser spectrometer for frequency metrology and high accuracy molecular spectroscopy around 10 μm . , 2013, , .		0
56	Long distance phase-coherent link between near- and mid-infrared frequencies. , 2013, , .		0
57	Long distance ultra-stable frequency dissemination on a dedicated wavelength channel of a telecommunication network. , 2013, , .		1
58	Bi-directional optical amplifiers for long-distance fibre links. , 2013, , .		2
59	Ultra-stable long distance optical frequency distribution using the Internet fiber network and application to high-precision molecular spectroscopy. Journal of Physics: Conference Series, 2013, 467, 012002.	0.4	6
60	Ultra-stable long distance optical frequency distribution using the Internet fiber network. Optics Express, 2012, 20, 23518.	3.4	132
61	Mid-IR frequency measurement using an optical frequency comb and a long-distance remote frequency reference. , 2012, , .		1
62	High resolution spectroscopy of methyltrioxorhenium: towards the observation of parity violation in chiral molecules. Physical Chemistry Chemical Physics, 2011, 13, 854-863.	2.8	23
63	Progress on an optical link for ultra-stable frequency dissemination using a public telecommunication network. , 2011, , .		1
64	High-resolution microwave frequency dissemination on an 86-km urban optical link. Applied Physics B: Lasers and Optics, 2010, 98, 723-727.	2.2	150
65	Determination of the Boltzmann Constant by Laser Spectroscopy as a Basis for Future Measurements of the Thermodynamic Temperature. International Journal of Thermophysics, 2010, 31, 1347-1359.	2.1	41
66	Progress toward the first observation of parity violation in chiral molecules by high-resolution laser spectroscopy. Chirality, 2010, 22, 870-884.	2.6	129
67	Multiplexed optical link for ultra-stable frequency dissemination. , 2010, , .		0
68	Multiplexed optical link for ultra-stable frequency dissemination. , 2010, , .		2
69	Cascaded multiplexed optical link on a telecommunication network for frequency dissemination. Optics Express, 2010, 18, 16849.	3.4	125
70	STABILITY OF THE PROTON-TO-ELECTRON MASS RATIO TESTED WITH MOLECULES USING AN OPTICAL LINK TO PRIMARY CLOCK. , 2010, , .		0
71	High-resolution optical frequency dissemination on a telecommunication network. , 2009, , .		3
72	Ultra-stable optical frequency transfer over an optical telecommunications network with live data traffic. , 2009, , .		0

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73	Measurement of the Boltzmann constant by the Doppler broadening technique at a 3.8×10^{-5} level. Comptes Rendus Physique, 2009, 10, 883-893.	0.9	43
74	High-resolution optical frequency dissemination on a telecommunications network with data traffic. Optics Letters, 2009, 34, 1573.	3.3	51
75	OPTICAL FREQUENCY TRANSFER OVER 172 KM OF INSTALLED FIBER. , 2009, , .		0
76	Long-distance ultrastable frequency transfer over urban fiber link: toward a European network. Proceedings of SPIE, 2009, , .	0.8	1
77	HCOOH high-resolution spectroscopy in the $9.18 \frac{1}{4}$ μ m region. Journal of Molecular Spectroscopy, 2008, 247, 41-46.	1.2	13
78	86-km optical link with a resolution of 2×10^{-18} for RF frequency transfer. European Physical Journal D, 2008, 48, 35-41.	1.3	122
79	Stability of the Proton-to-Electron Mass Ratio. Physical Review Letters, 2008, 100, 150801.	7.8	181
80	Long-distance frequency transfer over an urban fiber link using optical phase stabilization. Journal of the Optical Society of America B: Optical Physics, 2008, 25, 2029.	2.1	139
81	Transmission of an Optical Carrier Frequency over a Telecommunication Fiber Link. , 2007, , .		21
82	Absolute frequency measurements for hyperfine structure determination of the R(26) 62-0 transition at 501.7 μ m in molecular iodine. Metrologia, 2007, 44, 275-278.	1.2	1
83	Direct Determination of the Boltzmann Constant by an Optical Method. Physical Review Letters, 2007, 98, 250801.	7.8	125
84	Towards an optical measurement of the Boltzmann constant at the 10^{-5} level. Annales De Physique, 2007, 32, 175-178.	0.2	7
85	Frequency dissemination with a 86-km optical fibre for fundamental tests of physics. Annales De Physique, 2007, 32, 187-189.	0.2	2
86	Fiber frequency dissemination with resolution in the 10^{-18} range. , 2006, , .		3
87	Premiers r�sultats de mesure optique de la constante de Boltzmann par m�trologie des fr�quences. European Physical Journal Special Topics, 2006, 135, 181-182.	0.2	1
88	Mesure de la fr�quence absolue d'une raie � deux photons de SF6 en utilisant un peigne femtoseconde. European Physical Journal Special Topics, 2006, 135, 183-184.	0.2	0
89	High resolution frequency standard dissemination via optical fiber metropolitan network. Review of Scientific Instruments, 2006, 77, 064701.	1.3	140
90	Towards a First Observation of Molecular Parity Violation by Laser Spectroscopy. , 2006, , 324-331.		4

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91	SPECTROSCOPIC DETERMINATION OF THE BOLTZMANN CONSTANT: FIRST RESULTS. , 2005, , .		4
92	Frequency Measurement of an Ar ⁺ Laser Stabilized on Narrow Lines of Molecular Iodine at 501.7 nm. IEEE Transactions on Instrumentation and Measurement, 2005, 54, 754-758.	4.7	24
93	Long-Distance Frequency Dissemination with a Resolution of 10^{-17} . Physical Review Letters, 2005, 94, 203904.	7.8	127
94	Absolute frequency measurement of a SF ₆ two-photon line by use of a femtosecond optical comb and sum-frequency generation. Optics Letters, 2005, 30, 3320.	3.3	46
95	Absolute frequency measurement of 12C16O ₂ laser lines with a femtosecond laser comb and new determination of the 12C16O ₂ molecular constants and frequency grid. Journal of Molecular Spectroscopy, 2004, 228, 206-212.	1.2	30
96	Absolute frequency measurement in the 28-THz spectral region with a femtosecond laser comb and a long-distance optical link to a primary standard. Applied Physics B: Lasers and Optics, 2004, 78, 25-30.	2.2	48
97	Absolute frequency measurement of the iodine-stabilized Ar ⁺ laser at 514.6 nm using a femtosecond optical frequency comb. Applied Physics B: Lasers and Optics, 2004, 78, 725-731.	2.2	10
98	Two-photon Ramsey fringes at 30 THz referenced to an H maser/Cs fountain via an optical-frequency comb at the 1-Hz level. IEEE Journal of Quantum Electronics, 2004, 40, 1023-1029.	1.9	14
99	Absolute frequency measurement around 30 THz with a femtosecond laser comb. , 2004, , .		0
100	Narrow lines in molecular iodine near the dissociation limit. , 2004, , .		0
101	Mesures absolues de fréquences optiques avec un laser femtoseconde. European Physical Journal Special Topics, 2004, 119, 3-8.	0.2	1
102	Determination of CO ₂ /SF ₆ metrological characteristics with a femtosecond laser system: 1 Hz reproducibility at 10 μ m. , 2003, , .		0
103	10- μ m wavefront spatial filtering: first results with chalcogenide fibers. , 2003, 4838, 273.		4
104	High-sensitivity detection of two-photon Ramsey fringes at 30 THz by frequency-comb assisted stimulated emission. IEEE Journal of Quantum Electronics, 2002, 38, 1406-1411.	1.9	8
105	Franges de Ramsey à deux photons à 10,6 μ m amélioration de la résolution et perspectives métrologiques. European Physical Journal Special Topics, 2002, 12, 127-129.	0.2	0
106	Search for a frequency difference in the spectrum of the enantiomers of chiral molecules: How to reach a sensitivity better than 10 ⁻¹⁴ ?. , 2001, , .		3
107	500-Hz two-photon Ramsey fringes with a SF ₆ beam: towards a new frequency standard in the 30-THz spectral region. Applied Physics B: Lasers and Optics, 2001, 73, 93-98.	2.2	14
108	Nulling interferometry for the DARWIN mission: experimental demonstration of the concept in the thermal infrared with high levels of rejection. , 2000, 4006, 354.		1

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109	High-resolution spectroscopy with a molecular beam at 10.6 μm . Physical Review A, 2000, 63, .	2.5	7
110	Franges de Ramsey Λ deux photons Λ 10 μm : vers une nouvelle g π -n π rotation d' Λ étalons de fréquence dans le domaine infrarouge. European Physical Journal Special Topics, 2000, 10, Pr8-199.	0.2	0
111	Spectroscopie de molécules chirales : recherche d'un effet de violation de la parité. European Physical Journal Special Topics, 2000, 10, Pr8-45.	0.2	1
112	2.3-kHz two-photon Ramsey fringes at 30 THz. Physical Review A, 1999, 60, R753-R756.	2.5	11
113	Limit on the Parity Nonconserving Energy Difference between the Enantiomers of a Chiral Molecule by Laser Spectroscopy. Physical Review Letters, 1999, 83, 1554-1557.	7.8	201
114	Slow molecule detection or Ramsey fringes in two-photon spectroscopy: which is better for high resolution spectroscopy and metrology ?. Optics Express, 1999, 4, 67.	3.4	10
115	Frequency measurements of saturated-fluorescence-stabilized CO ₂ laser lines: comparison with an OsO ₄ -stabilized CO ₂ laser standard. Applied Physics B: Lasers and Optics, 1998, 67, 217-221.	2.2	15
116	Slow-molecule detection in Doppler-free two-photon spectroscopy. Europhysics Letters, 1997, 37, 103-108.	2.0	13
117	CO ₂ laser stabilization to 0.1-Hz level using external electrooptic modulation. IEEE Journal of Quantum Electronics, 1997, 33, 1282-1287.	1.9	56
118	Saturation effects in three-level selective reflection. Physical Review A, 1996, 53, 3647-3651.	2.5	5
119	Three-level nonlinear selective reflection at a glass-Cs-vapor interface. Physical Review A, 1995, 52, 3101-3109.	2.5	12
120	Spectral purity and long-term stability of CO ₂ lasers at the Hertz level. IEEE Journal of Quantum Electronics, 1995, 31, 1913-1918.	1.9	14
121	Three-Level Non-linear Selective Reflection at a Dielectric/Cs Vapour Interface. Europhysics Letters, 1994, 25, 579-585.	2.0	25
122	Linear and nonlinear selective reflection spectroscopy. AIP Conference Proceedings, 1993, , .	0.4	0
123	Doppler-free spectroscopy of Mg using uv-visible saturated absorption. Optics Communications, 1992, 90, 265-269.	2.1	3
124	Saturation behavior and dynamic Stark splitting of nearly-degenerate four-wave and multiwave mixing in a forward boxcar configuration. Optics Communications, 1989, 73, 111-116.	2.1	9
125	Ultraviolet continuous-wave phase conjugation at 285 nm. Optics Letters, 1989, 14, 60.	3.3	2
126	Doppler - free spectroscopy and isotopic shift of the Mg I resonance line at 285 nm. Journal De Physique, 1988, 49, 885-887.	1.8	16

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127	Optical selection of slow molecules in Doppler-free two-photon spectroscopy. , 0, , .		0
128	High performance frequency dissemination for metrology applications with optical fibers. , 0, , .		5
129	Project CLONETS. , 0, , .		0
130	The CLONETS $\frac{1}{2}$ Clock Network Services Strategy and Innovation for Clock Services Over Optical-Fibre Networks. , 0, , .		0