SÃ¸ren Rud Keiding

List of Publications by Year
in descending order

124 papers	8,187 citations	76326 40 h-index	46799 89 g-index
126 all docs	126 docs citations	126 times ranked	5840 citing authors

#	Article	IF	Citations
1	Long wavelength near-infrared transmission spectroscopy of barley seeds using a supercontinuum laser: Prediction of mixed-linkage beta-glucan content. Analytica Chimica Acta, 2017, 986, 101-108.	5.4	8
2	Near-Infrared Spectroscopy Using a Supercontinuum Laser: Application to Long Wavelength Transmission Spectra of Barley Endosperm and Oil. Applied Spectroscopy, 2016, 70, 1176-1185.	2.2	12
3	Transient IR Spectroscopic Observation of Singlet and Triplet States of 2-Nitrofluorene: Revisiting the Photophysics of Nitroaromatics. Journal of Physical Chemistry A, 2016, 120, 28-35.	2.5	20
4	Primary photochemistry of peroxynitrite in aqueous solution. Chemical Physics Letters, 2015, 641, 187-192.	2.6	5
5	Pushing the limit: investigation of hydrodynamic forces on a trapped particle kicked by a laser pulse. Optics Express, 2015, 23, 13141.	3.4	3
6	Pulse-to-pulse noise reduction in infrared supercontinuum spectroscopy: polarization and amplitude fluctuations. Laser Physics Letters, 2014, 11, 095702.	1.4	9
7	Spectroscopy and picosecond dynamics of aqueous NO2. Journal of Chemical Physics, 2014, 141, 064310.	3.0	3
8	Ultra-high repetition rate absorption spectroscopy with low noise supercontinuum radiation generated in an all-normal dispersion fibre. Laser Physics Letters, 2014, 11, 075601.	1.4	25
9	Vibrational relaxation of NO3â˜(aq). Chemical Physics, 2014, 442, 86-92.	1.9	1
10	Hydration Dynamics of Aqueous Nitrate. Journal of Physical Chemistry B, 2013, 117, 3376-3388.	2.6	74
11	Photo protection of RNA building blocks: Adenosine 5â€²-monophosphate, cytidine 5â€²-monophosphate and cytosine. Chemical Physics Letters, 2013, 567, 50-54.	2.6	9
12	Up-conversion of a megahertz mid-IR supercontinuum. Journal of the Optical Society of America B: Optical Physics, 2013, 30, 2570.	2.1	17
13	Pulsed laser manipulation of an optically trapped bead: Averaging thermal noise and measuring the pulsed force amplitude. Optics Express, 2013, 21, 1986.	3.4	8
14	Generation of infrared supercontinuum radiation: spatial mode dispersion and higher-order mode propagation in ZBLAN step-index fibers. Optics Express, 2013, 21, 10764.	3.4	26
15	The rotation of NO3â˜as a probe of molecular ion - water interactions. EPJ Web of Conferences, 2013, 41, 06002.	0.3	0
16	Supercontinuum generation in ZBLAN fibersâ€”detailed comparison between measurement and simulation. Journal of the Optical Society of America B: Optical Physics, 2012, 29, 635.	2.1	124
17	Motion analysis of optically trapped particles and cells using 2D Fourier analysis. Optics Express, 2012, 20, 1953.	3.4	1
18	IR microscopy utilizing intense supercontinuum light source. Optics Express, 2012, 20, 4887.	3.4	141

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19	Supercontinuum: broad as a lamp, bright as a laser, now in the mid-infrared. Proceedings of SPIE, 2012, , .	0.8	19
20	Nonlinear matching of Solitons - Continued redshift between silica and soft-glass fibers. , 2012, , .		0
21	All fiber based supercontinuum light source utilized for IR microscopy. , 2012, , .		0
22	Thermodynamic investigations of methyl tert-butyl ether and water mixtures. Physical Chemistry Chemical Physics, 2011, 13, 1182-1188.	2.8	5
23	Vibrational dynamics of deoxyguanosine 5â€²-monophosphate following UV excitation. Physical Chemistry Chemical Physics, 2011, 13, 13821.	2.8	20
24	Stimulated Raman scattering in soft glass fluoride fibers. Journal of the Optical Society of America B: Optical Physics, 2011, 28, 2310.	2.1	14
25	Nonlinear soliton matching between optical fibers. Optics Letters, 2011, 36, 2596.	3.3	26
26	Alternative modes for optical trapping and manipulation using counter-propagating shaped beams. Journal of Optics (United Kingdom), 2011, 13, 044013.	2.2	8
27	A higher-order-mode fiber delivery for Ti:Sapphire femtosecond lasers. Optics Express, 2010, 18, 7798.	3.4	18
28	The hunt for HCO(aq). Physical Chemistry Chemical Physics, 2010, 12, 8926.	2.8	15
29	Reorientation of hydroxide ions in water. , 2009, , .		0
30	Independent trapping, manipulation and characterization using fiber based CARS microspectroscopy.. , 2009, , .		0
31	Primary Formation Dynamics of Peroxynitrite Following Photolysis of Nitrate. Journal of Physical Chemistry A, 2009, 113, 10488-10494.	2.5	9
32	Microscopic dynamics of a base protonation. Chemical Physics Letters, 2008, 463, 357-359.	2.6	2
33	Reorientation of hydroxide ions in water. Chemical Physics Letters, 2008, 466, 1-5.	2.6	25
34	Solvent response to solute photo-dissociation. Physical Chemistry Chemical Physics, 2008, 10, 990-995.	2.8	11
35	Femtosecond Photolysis of Aqueous Formamide. Journal of Physical Chemistry A, 2008, 112, 3339-3344.	2.5	30
36	Dispersion compensation with solid-core photonic bandgap fiber in an Yb-doped mode-locked fiber laser. , 2007, , .		1

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37	All-fiber mode-locked fiber laser. Optics Letters, 2007, 32, 1474.	3.3	62
38	Fiber laser-based light source for coherent anti-Stokes Raman scattering microspectroscopy. Optics Express, 2007, 15, 4848.	3.4	71
39	Electron Detachment and Relaxation of OH-(aq). Journal of Physical Chemistry A, 2007, 111, 11410-11420.	2.5	22
40	Reproductive death of cancer cells induced by femtosecond laser pulses. International Journal of Radiation Biology, 2007, 83, 289-299.	1.8	5
41	Fiber laser-based light source for CARS microspectroscopy. , 2007, , .		0
42	Absence of a Signature of Aqueous I(2P1/2) after 200-nm Photodetachment of I-(aq). Journal of Physical Chemistry A, 2006, 110, 10947-10955.	2.5	32
43	Investigation of the Primary Photodynamics of the Aqueous Formate Anion. Journal of Physical Chemistry A, 2006, 110, 3383-3387.	2.5	13
44	Tunable light source for coherent anti-Stokes Raman scattering microspectroscopy based on the soliton self-frequency shift. Optics Letters, 2006, 31, 1328.	3.3	84
45	An active interferometer-stabilization scheme with linear phase control. Optics Express, 2006, 14, 5210.	3.4	25
46	A 158 fs 5.3 nJ fiber-laser system at 1 Âµm using photonic bandgap fibers for dispersion control and pulse compression. Optics Express, 2006, 14, 6063.	3.4	41
47	Picosecond anti-Stokes generation in a photonic-crystal fiber for interferometric CARS microscopy. Optics Express, 2006, 14, 7246.	3.4	21
48	All-fiber actively Q-switched Yb-doped laser. Optics Communications, 2006, 260, 251-256.	2.1	40
49	Observation of a persistent infrared absorption following two photon ionization of liquid water. Chemical Physics, 2006, 328, 119-124.	1.9	8
50	Characterization of ultraviolet femtosecond pulse propagation in aluminum-coated capillary fibers. Journal of Applied Physics, 2005, 98, 033519.	2.5	2
51	Stability analysis of an all-fiber coupled cavity Fabry-Perot additive pulse mode-locked laser. IEEE Journal of Quantum Electronics, 2005, 41, 198-204.	1.9	3
52	Broadband multiplex coherent anti-Stokes Raman scattering microscopy employing photonic-crystal fibers. Journal of the Optical Society of America B: Optical Physics, 2005, 22, 1934.	2.1	75
53	Continuous-wave wavelength conversion in a photonic crystal fiber with two zero-dispersion wavelengths: erratum. Optics Express, 2005, 13, 3581.	3.4	3
54	Spectral compression of femtosecond pulses in photonic crystal fibers. Optics Letters, 2005, 30, 2025.	3.3	64

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55	Reaction dynamics of aqueous peroxynitrite and peroxynitrous acid. , 2004, , 207-210.		0
56	When molecules meet: a femtosecond study of the protonation of a base. Chemical Physics Letters, 2004, 390, 94-97.	2.6	14
57	Fast Photodynamics of Aqueous Formic Acid. Journal of Physical Chemistry A, 2004, 108, 7483-7489.	2.5	12
58	Plastic particles at the LASIK interface. Ophthalmology, 2004, 111, 18-23.	5.2	43
59	Supercontinuum generation in a photonic crystal fiber with two zero dispersion wavelengths. Optics Express, 2004, 12, 1045.	3.4	318
60	Continuous-wave wavelength conversion in a photonic crystal fiber with two zero-dispersion wavelengths. Optics Express, 2004, 12, 4113.	3.4	107
61	High-power intracavity frequency doubling of a Ti:sapphire femtosecond oscillator. Applied Physics B: Lasers and Optics, 2003, 76, 639-644.	2.2	2
62	Femtosecond Photolysis of HOCl(aq):â€‰ Dissipation of Fragment Kinetic Energy. Journal of Physical Chemistry A, 2003, 107, 3606-3611.	2.5	16
63	The Primary Photodynamics of Aqueous Nitrate:â€‰ Formation of Peroxynitrite. Journal of the American Chemical Society, 2003, 125, 15571-15576.	13.7	54
64	Coherent anti-Stokes Raman scattering microscopy with a photonic crystal fiber based light source. Optics Letters, 2003, 28, 1123.	3.3	282
65	Initial steps of supercontinuum generation in photonic crystal fibers. Journal of the Optical Society of America B: Optical Physics, 2003, 20, 1887.	2.1	80
66	The photoisomerization of aqueous ICN studied by subpicosecond transient absorption spectroscopy. Journal of Chemical Physics, 2002, 116, 7997-8005.	3.0	40
67	Low frequency spectroscopy of liquid water using THz-time domain spectroscopy. Journal of Molecular Liquids, 2002, 101, 199-218.	4.9	145
68	The temperature dependent dielectric function of liquid benzene: Interpretation of THz spectroscopy data by molecular dynamics simulation. Journal of Chemical Physics, 2001, 114, 5246-5255.	3.0	8
69	Extracting rates of vibrational energy relaxation from centroid molecular dynamics. Chemical Physics Letters, 2001, 336, 488-494.	2.6	20
70	Asymmetric stretch vibrational energy relaxation of OClO in liquid water. Chemical Physics Letters, 2001, 343, 581-587.	2.6	21
71	Vibrational relaxation of aqueous CS2. Journal of Chemical Physics, 2001, 114, 4099-4106.	3.0	10
72	Femtosecond photolysis of aqueous HOCl. Journal of Chemical Physics, 2001, 115, 9361-9369.	3.0	42

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73	Far-infrared properties of DAST. Optics Letters, 2000, 25, 911.	3.3	112
74	Temperature dependent relaxation and recombination dynamics of the hydrated electron. Journal of Chemical Physics, 2000, 113, 1126-1134.	3.0	64
75	Quantum Yield for ClOO Formation following Photolysis of Aqueous OClO. Journal of the American Chemical Society, 2000, 122, 12795-12801.	13.7	32
76	Temperature dependence of the dielectric function of C6H6(l) and C6H5CH3(l) measured with THz spectroscopy. Journal of Chemical Physics, 2000, 113, 3749-3756.	3.0	51
77	Drude conductivity of highly doped GaAs at terahertz frequencies. Journal of Applied Physics, 2000, 87, 2382-2385.	2.5	64
78	THz time domain spectroscopy of liquids. , 1999, 3828, 266.		6
79	Two-photon dissociation and ionization of liquid water studied by femtosecond transient absorption spectroscopy. Journal of Chemical Physics, 1999, 110, 3453-3462.	3.0	177
80	Femtosecond spectroscopy of the dissociation and geminate recombination of aqueous CS2. Journal of Chemical Physics, 1999, 111, 703-710.	3.0	19
81	2 THz bandwidth electrical pulses on Au and YBa2Cu3Ox transmission lines. Applied Physics Letters, 1999, 74, 1892-1894.	3.3	11
82	Far Infrared Properties of Electro-Optic Crystals Measured by THz Time-Domain Spectroscopy. Journal of Infrared, Millimeter and Terahertz Waves, 1999, 20, 595-604.	0.6	175
83	THz Spectroscopy of LiquidH2OandD2O. Physical Review Letters, 1999, 82, 2888-2891.	7.8	349
84	Ultrafast Charge-Transfer Dynamics:Â Studies ofp-Nitroaniline in Water and Dioxane. Journal of Physical Chemistry A, 1998, 102, 1062-1067.	2.5	84
85	Chemical Reactions in Liquids:â€‰ Photolysis of OClO in Water. Journal of Physical Chemistry A, 1998, 102, 4186-4191.	2.5	45
86	Femtosecond photodissociation dynamics of I2 studied by ion imaging. Journal of Chemical Physics, 1998, 109, 8857-8863.	3.0	28
87	Vibrational relaxation of ClO2 in water. Journal of Chemical Physics, 1998, 108, 8461-8471.	3.0	58
88	Imaging of ions produced by femtosecond laser induced Coulomb explosion of molecules. Springer Series in Chemical Physics, 1998, , 444-446.	0.2	0
89	Generation and propagation of subpicosecond pulses in a photoconductive GaAs switch integrated onto a gold/YBa/sub 2/Cu/sub 3/O/sub x/ coplanar transmission line structure. IEEE Transactions on Applied Superconductivity, 1997, 7, 3726-3729.	1.7	1
90	Dipole Correlation Functions in Liquid Benzenes Measured with Terahertz Time Domain Spectroscopy. Journal of Physical Chemistry A, 1997, 101, 5250-5254.	2.5	31

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91	Femtosecond Photolysis of ClO2 in Aqueous Solution. Journal of Physical Chemistry A, 1997, 101, 3317-3323.	2.5	57
92	Investigation of the temperature dependence of dielectric relaxation in liquid water by THz reflection spectroscopy and molecular dynamics simulation. Journal of Chemical Physics, 1997, 107, 5319-5331.	3.0	539
93	Generation and detection of terahertz pulses from biased semiconductor antennas. Journal of the Optical Society of America B: Optical Physics, 1996, 13, 2424.	2.1	539
94	Photoconductive sampling of subpicosecond pulses using mutual inductive coupling in coplanar transmission lines. Journal of Applied Physics, 1996, 80, 4214-4216.	2.5	6
95	Interpretation of photocurrent correlation measurements used for ultrafast photoconductive switch characterization. Journal of Applied Physics, 1996, 79, 2649-2657.	2.5	29
96	Detection of THz pulses by phase retardation in lithium tantalate. Physical Review E, 1996, 53, R3052-R3054.	2.1	121
97	THz reflection spectroscopy of liquid water. Chemical Physics Letters, 1995, 240, 330-333.	2.6	309
98	Radiation patterns from lens-coupled terahertz antennas. Optics Letters, 1995, 20, 807.	3.3	129
99	Terahertz radiation from deltaâ€doped GaAs. Applied Physics Letters, 1994, 65, 79-81.	3.3	10
100	Ultrafast carrier trapping and slow recombination in ionâ€bombarded silicon on sapphire measured via THz spectroscopy. Applied Physics Letters, 1994, 64, 2385-2387.	3.3	19
101	Ultrafast local field dynamics in photoconductive THz antennas. Applied Physics Letters, 1993, 62, 1265-1267.	3.3	80
102	5â€THz bandwidth from a GaAsâ€onâ€silicon photoconductive receiver. Journal of Applied Physics, 1993, 74, 7022-7024.	2.5	13
103	Terahertz pulses from semiconductorâ€air interfaces. Applied Physics Letters, 1992, 61, 1372-1374.	3.3	11
104	THz time-domain spectroscopy of nonpolar liquids. IEEE Journal of Quantum Electronics, 1992, 28, 2518-2522.	1.9	133
105	THz commensurate echoes: Periodic rephasing of molecular transitions in free-induction decay. Physical Review Letters, 1991, 66, 1834-1837.	7.8	113
106	THz timeâ€domain spectroscopy of highTcsubstrates. Applied Physics Letters, 1990, 57, 1055-1057.	3.3	83
107	Measurements of the phase shift and reshaping of terahertz pulses due to total internal reflection. Optics Letters, 1990, 15, 48.	3.3	15
108	Far-infrared time-domain spectroscopy with terahertz beams of dielectrics and semiconductors. Journal of the Optical Society of America B: Optical Physics, 1990, 7, 2006.	2.1	1,986

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109	Barrier tunneling in the He2 câ€‰3Î£+g state. Journal of Chemical Physics, 1989, 90, 3096-3101.	3.0	12
110	Spectroscopy and dynamics of quasibound states in excitedH2. Physical Review A, 1989, 39, 590-604.	2.5	25
111	Lifetime determination of the long-lived B 1Îg state in He2* by photofragment spectroscopy. Chemical Physics Letters, 1989, 164, 600-604.	2.6	6
112	Double-resonance study of predissociation of thej3Î”gstate ofH2. Physical Review A, 1988, 38, 3447-3455.	2.5	24
113	Autoionization ofH2Induced by a Doubly Excited Triplet State. Physical Review Letters, 1988, 60, 2465-2468.	7.8	25
114	The n=2,3 triplet Rydberg states of the HD molecule observed by fast neutralâ€beam photofragment spectroscopy. Journal of Chemical Physics, 1987, 86, 3050-3051.	3.0	6
115	The triplet 3s,3d complex of HD. Journal of Chemical Physics, 1987, 87, 3321-3331.	3.0	31
116	Long-Range Ion-Atom Interactions Studied by Field-Dissociation Spectroscopy of Molecular Ions. Physical Review Letters, 1986, 56, 1459-1462.	7.8	17
117	THz time-domain spectroscopy of electro-optic crystals. , 0, , .		1
118	Femtosecond spectroscopy of the dissociation and geminate recombination of aqueous carbondisulfide. , 0, , .		0
119	Femtosecond spectroscopy of the dissociation and geminate recombination of aqueous carbon disulfide. , 0, , .		0
120	Ultrafast dynamics of liquid water. , 0, , .		0
121	Nonlinear wave mixing in photonic crystal fibers. , 0, , .		0
122	Pulse propagation in photonic crystal fibers. , 0, , .		0
123	Independent trapping, manipulation and characterization by an all-optical biophotonics workstation. Journal of the European Optical Society-Rapid Publications, 0, 3, .	1.9	52
124	Three-dimensional imaging and force characterization of multiple trapped particles in low NA counterpropagating optical traps. Journal of the European Optical Society-Rapid Publications, 0, 6, .	1.9	14