

# Søren Rud Keiding

## List of Publications by Year in descending order

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124  
papers

8,187  
citations

76294

40  
h-index

46771

89  
g-index

126  
all docs

126  
docs citations

126  
times ranked

5840  
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	0.9	1,986
2	Generation and detection of terahertz pulses from biased semiconductor antennas. Journal of the Optical Society of America B: Optical Physics, 1996, 13, 2424.	0.9	539
3	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.	1.2	539
4	THz Spectroscopy of Liquid H <sub>2</sub> O and D <sub>2</sub> O. Physical Review Letters, 1999, 82, 2888-2891.	2.9	349
5	Supercontinuum generation in a photonic crystal fiber with two zero dispersion wavelengths. Optics Express, 2004, 12, 1045.	1.7	318
6	THz reflection spectroscopy of liquid water. Chemical Physics Letters, 1995, 240, 330-333.	1.2	309
7	Coherent anti-Stokes Raman scattering microscopy with a photonic crystal fiber based light source. Optics Letters, 2003, 28, 1123.	1.7	282
8	Two-photon dissociation and ionization of liquid water studied by femtosecond transient absorption spectroscopy. Journal of Chemical Physics, 1999, 110, 3453-3462.	1.2	177
9	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
10	Low frequency spectroscopy of liquid water using THz-time domain spectroscopy. Journal of Molecular Liquids, 2002, 101, 199-218.	2.3	145
11	IR microscopy utilizing intense supercontinuum light source. Optics Express, 2012, 20, 4887.	1.7	141
12	THz time-domain spectroscopy of nonpolar liquids. IEEE Journal of Quantum Electronics, 1992, 28, 2518-2522.	1.0	133
13	Radiation patterns from lens-coupled terahertz antennas. Optics Letters, 1995, 20, 807.	1.7	129
14	Supercontinuum generation in ZBLAN fibers – detailed comparison between measurement and simulation. Journal of the Optical Society of America B: Optical Physics, 2012, 29, 635.	0.9	124
15	Detection of THz pulses by phase retardation in lithium tantalate. Physical Review E, 1996, 53, R3052-R3054.	0.8	121
16	THz commensurate echoes: Periodic rephasing of molecular transitions in free-induction decay. Physical Review Letters, 1991, 66, 1834-1837.	2.9	113
17	Far-infrared properties of DAST. Optics Letters, 2000, 25, 911.	1.7	112
18	Continuous-wave wavelength conversion in a photonic crystal fiber with two zero-dispersion wavelengths. Optics Express, 2004, 12, 4113.	1.7	107

#	ARTICLE	IF	CITATIONS
19	Ultrafast Charge-Transfer Dynamics: A Study of p-Nitroaniline in Water and Dioxane. <i>Journal of Physical Chemistry A</i> , 1998, 102, 1062-1067.	1.1	84
20	Tunable light source for coherent anti-Stokes Raman scattering microspectroscopy based on the soliton self-frequency shift. <i>Optics Letters</i> , 2006, 31, 1328.	1.7	84
21	THz time-domain spectroscopy of high-Tc substrates. <i>Applied Physics Letters</i> , 1990, 57, 1055-1057.	1.5	83
22	Ultrafast local field dynamics in photoconductive THz antennas. <i>Applied Physics Letters</i> , 1993, 62, 1265-1267.	1.5	80
23	Initial steps of supercontinuum generation in photonic crystal fibers. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2003, 20, 1887.	0.9	80
24	Broadband multiplex coherent anti-Stokes Raman scattering microscopy employing photonic-crystal fibers. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2005, 22, 1934.	0.9	75
25	Hydration Dynamics of Aqueous Nitrate. <i>Journal of Physical Chemistry B</i> , 2013, 117, 3376-3388.	1.2	74
26	Fiber laser-based light source for coherent anti-Stokes Raman scattering microspectroscopy. <i>Optics Express</i> , 2007, 15, 4848.	1.7	71
27	Temperature dependent relaxation and recombination dynamics of the hydrated electron. <i>Journal of Chemical Physics</i> , 2000, 113, 1126-1134.	1.2	64
28	Drude conductivity of highly doped GaAs at terahertz frequencies. <i>Journal of Applied Physics</i> , 2000, 87, 2382-2385.	1.1	64
29	Spectral compression of femtosecond pulses in photonic crystal fibers. <i>Optics Letters</i> , 2005, 30, 2025.	1.7	64
30	All-fiber mode-locked fiber laser. <i>Optics Letters</i> , 2007, 32, 1474.	1.7	62
31	Vibrational relaxation of ClO <sub>2</sub> in water. <i>Journal of Chemical Physics</i> , 1998, 108, 8461-8471.	1.2	58
32	Femtosecond Photolysis of ClO <sub>2</sub> in Aqueous Solution. <i>Journal of Physical Chemistry A</i> , 1997, 101, 3317-3323.	1.1	57
33	The Primary Photodynamics of Aqueous Nitrate: Formation of Peroxynitrite. <i>Journal of the American Chemical Society</i> , 2003, 125, 15571-15576.	6.6	54
34	Independent trapping, manipulation and characterization by an all-optical biophotonics workstation. <i>Journal of the European Optical Society-Rapid Publications</i> , 0, 3, .	0.9	52
35	Temperature dependence of the dielectric function of C <sub>6</sub> H <sub>6</sub> (l) and C <sub>6</sub> H <sub>5</sub> CH <sub>3</sub> (l) measured with THz spectroscopy. <i>Journal of Chemical Physics</i> , 2000, 113, 3749-3756.	1.2	51
36	Chemical Reactions in Liquids: Photolysis of OClO in Water. <i>Journal of Physical Chemistry A</i> , 1998, 102, 4186-4191.	1.1	45

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37	Plastic particles at the LASIK interface. <i>Ophthalmology</i> , 2004, 111, 18-23.	2.5	43
38	Femtosecond photolysis of aqueous HOCl. <i>Journal of Chemical Physics</i> , 2001, 115, 9361-9369.	1.2	42
39	A 158 fs 5.3 nJ fiber-laser system at 1 $\mu\text{m}$ using photonic bandgap fibers for dispersion control and pulse compression. <i>Optics Express</i> , 2006, 14, 6063.	1.7	41
40	The photoisomerization of aqueous ICN studied by subpicosecond transient absorption spectroscopy. <i>Journal of Chemical Physics</i> , 2002, 116, 7997-8005.	1.2	40
41	All-fiber actively Q-switched Yb-doped laser. <i>Optics Communications</i> , 2006, 260, 251-256.	1.0	40
42	Quantum Yield for ClOO Formation following Photolysis of Aqueous OClO. <i>Journal of the American Chemical Society</i> , 2000, 122, 12795-12801.	6.6	32
43	Absence of a Signature of Aqueous I(2P <sub>1/2</sub> ) after 200-nm Photodetachment of I-(aq). <i>Journal of Physical Chemistry A</i> , 2006, 110, 10947-10955.	1.1	32
44	The triplet 3s,3d complex of HD. <i>Journal of Chemical Physics</i> , 1987, 87, 3321-3331.	1.2	31
45	Dipole Correlation Functions in Liquid Benzenes Measured with Terahertz Time Domain Spectroscopy. <i>Journal of Physical Chemistry A</i> , 1997, 101, 5250-5254.	1.1	31
46	Femtosecond Photolysis of Aqueous Formamide. <i>Journal of Physical Chemistry A</i> , 2008, 112, 3339-3344.	1.1	30
47	Interpretation of photocurrent correlation measurements used for ultrafast photoconductive switch characterization. <i>Journal of Applied Physics</i> , 1996, 79, 2649-2657.	1.1	29
48	Femtosecond photodissociation dynamics of I <sub>2</sub> studied by ion imaging. <i>Journal of Chemical Physics</i> , 1998, 109, 8857-8863.	1.2	28
49	Nonlinear soliton matching between optical fibers. <i>Optics Letters</i> , 2011, 36, 2596.	1.7	26
50	Generation of infrared supercontinuum radiation: spatial mode dispersion and higher-order mode propagation in ZBLAN step-index fibers. <i>Optics Express</i> , 2013, 21, 10764.	1.7	26
51	Autoionization of H <sub>2</sub> Induced by a Doubly Excited Triplet State. <i>Physical Review Letters</i> , 1988, 60, 2465-2468.	2.9	25
52	Spectroscopy and dynamics of quasibound states in excited H <sub>2</sub> . <i>Physical Review A</i> , 1989, 39, 590-604.	1.0	25
53	An active interferometer-stabilization scheme with linear phase control. <i>Optics Express</i> , 2006, 14, 5210.	1.7	25
54	Reorientation of hydroxide ions in water. <i>Chemical Physics Letters</i> , 2008, 466, 1-5.	1.2	25

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55	Ultra-high repetition rate absorption spectroscopy with low noise supercontinuum radiation generated in an all-normal dispersion fibre. <i>Laser Physics Letters</i> , 2014, 11, 075601.	0.6	25
56	Double-resonance study of predissociation of the $3^1\Pi_g$ state of $H_2$ . <i>Physical Review A</i> , 1988, 38, 3447-3455.	1.0	24
57	Electron Detachment and Relaxation of $OH(aq)$ . <i>Journal of Physical Chemistry A</i> , 2007, 111, 11410-11420.	1.1	22
58	Asymmetric stretch vibrational energy relaxation of $OCIO$ in liquid water. <i>Chemical Physics Letters</i> , 2001, 343, 581-587.	1.2	21
59	Picosecond anti-Stokes generation in a photonic-crystal fiber for interferometric CARS microscopy. <i>Optics Express</i> , 2006, 14, 7246.	1.7	21
60	Extracting rates of vibrational energy relaxation from centroid molecular dynamics. <i>Chemical Physics Letters</i> , 2001, 336, 488-494.	1.2	20
61	Vibrational dynamics of deoxyguanosine $5'$ -monophosphate following UV excitation. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 13821.	1.3	20
62	Transient IR Spectroscopic Observation of Singlet and Triplet States of 2-Nitrofluorene: Revisiting the Photophysics of Nitroaromatics. <i>Journal of Physical Chemistry A</i> , 2016, 120, 28-35.	1.1	20
63	Ultrafast carrier trapping and slow recombination in ion-bombarded silicon on sapphire measured via THz spectroscopy. <i>Applied Physics Letters</i> , 1994, 64, 2385-2387.	1.5	19
64	Femtosecond spectroscopy of the dissociation and geminate recombination of aqueous $CS_2$ . <i>Journal of Chemical Physics</i> , 1999, 111, 703-710.	1.2	19
65	Supercontinuum: broad as a lamp, bright as a laser, now in the mid-infrared. <i>Proceedings of SPIE</i> , 2012, , .	0.8	19
66	A higher-order-mode fiber delivery for Ti:Sapphire femtosecond lasers. <i>Optics Express</i> , 2010, 18, 7798.	1.7	18
67	Long-Range Ion-Atom Interactions Studied by Field-Dissociation Spectroscopy of Molecular Ions. <i>Physical Review Letters</i> , 1986, 56, 1459-1462.	2.9	17
68	Up-conversion of a megahertz mid-IR supercontinuum. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2013, 30, 2570.	0.9	17
69	Femtosecond Photolysis of $HOCl(aq)$ : Dissipation of Fragment Kinetic Energy. <i>Journal of Physical Chemistry A</i> , 2003, 107, 3606-3611.	1.1	16
70	Measurements of the phase shift and reshaping of terahertz pulses due to total internal reflection. <i>Optics Letters</i> , 1990, 15, 48.	1.7	15
71	The hunt for $HCO(aq)$ . <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 8926.	1.3	15
72	When molecules meet: a femtosecond study of the protonation of a base. <i>Chemical Physics Letters</i> , 2004, 390, 94-97.	1.2	14

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73	Stimulated Raman scattering in soft glass fluoride fibers. Journal of the Optical Society of America B: Optical Physics, 2011, 28, 2310.	0.9	14
74	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, .	0.9	14
75	5â€THz bandwidth from a GaAsâ€silicon photoconductive receiver. Journal of Applied Physics, 1993, 74, 7022-7024.	1.1	13
76	Investigation of the Primary Photodynamics of the Aqueous Formate Anion. Journal of Physical Chemistry A, 2006, 110, 3383-3387.	1.1	13
77	Barrier tunneling in the He2 câ€%3Î£+g state. Journal of Chemical Physics, 1989, 90, 3096-3101.	1.2	12
78	Fast Photodynamics of Aqueous Formic Acid. Journal of Physical Chemistry A, 2004, 108, 7483-7489.	1.1	12
79	Near-Infrared Spectroscopy Using a Supercontinuum Laser: Application to Long Wavelength Transmission Spectra of Barley Endosperm and Oil. Applied Spectroscopy, 2016, 70, 1176-1185.	1.2	12
80	Terahertz pulses from semiconductorâ€air interfaces. Applied Physics Letters, 1992, 61, 1372-1374.	1.5	11
81	2 THz bandwidth electrical pulses on Au and YBa2Cu3Ox transmission lines. Applied Physics Letters, 1999, 74, 1892-1894.	1.5	11
82	Solvent response to solute photo-dissociation. Physical Chemistry Chemical Physics, 2008, 10, 990-995.	1.3	11
83	Terahertz radiation from deltaâ€doped GaAs. Applied Physics Letters, 1994, 65, 79-81.	1.5	10
84	Vibrational relaxation of aqueous CS2. Journal of Chemical Physics, 2001, 114, 4099-4106.	1.2	10
85	Primary Formation Dynamics of Peroxynitrite Following Photolysis of Nitrate. Journal of Physical Chemistry A, 2009, 113, 10488-10494.	1.1	9
86	Photo protection of RNA building blocks: Adenosine 5â€2-monophosphate, cytidine 5â€2-monophosphate and cytosine. Chemical Physics Letters, 2013, 567, 50-54.	1.2	9
87	Pulse-to-pulse noise reduction in infrared supercontinuum spectroscopy: polarization and amplitude fluctuations. Laser Physics Letters, 2014, 11, 095702.	0.6	9
88	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.	1.2	8
89	Observation of a persistent infrared absorption following two photon ionization of liquid water. Chemical Physics, 2006, 328, 119-124.	0.9	8
90	Alternative modes for optical trapping and manipulation using counter-propagating shaped beams. Journal of Optics (United Kingdom), 2011, 13, 044013.	1.0	8

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91	Pulsed laser manipulation of an optically trapped bead: Averaging thermal noise and measuring the pulsed force amplitude. <i>Optics Express</i> , 2013, 21, 1986.	1.7	8
92	Long wavelength near-infrared transmission spectroscopy of barley seeds using a supercontinuum laser: Prediction of mixed-linkage beta-glucan content. <i>Analytica Chimica Acta</i> , 2017, 986, 101-108.	2.6	8
93	The n=2,3 triplet Rydberg states of the HD molecule observed by fast neutral beam photofragment spectroscopy. <i>Journal of Chemical Physics</i> , 1987, 86, 3050-3051.	1.2	6
94	Lifetime determination of the long-lived B $1\hat{1}g$ state in He2* by photofragment spectroscopy. <i>Chemical Physics Letters</i> , 1989, 164, 600-604.	1.2	6
95	Photoconductive sampling of subpicosecond pulses using mutual inductive coupling in coplanar transmission lines. <i>Journal of Applied Physics</i> , 1996, 80, 4214-4216.	1.1	6
96	THz time domain spectroscopy of liquids. , 1999, 3828, 266.		6
97	Reproductive death of cancer cells induced by femtosecond laser pulses. <i>International Journal of Radiation Biology</i> , 2007, 83, 289-299.	1.0	5
98	Thermodynamic investigations of methyl tert-butyl ether and water mixtures. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 1182-1188.	1.3	5
99	Primary photochemistry of peroxyxynitrite in aqueous solution. <i>Chemical Physics Letters</i> , 2015, 641, 187-192.	1.2	5
100	Stability analysis of an all-fiber coupled cavity Fabry-Perot additive pulse mode-locked laser. <i>IEEE Journal of Quantum Electronics</i> , 2005, 41, 198-204.	1.0	3
101	Continuous-wave wavelength conversion in a photonic crystal fiber with two zero-dispersion wavelengths: erratum. <i>Optics Express</i> , 2005, 13, 3581.	1.7	3
102	Spectroscopy and picosecond dynamics of aqueous NO2. <i>Journal of Chemical Physics</i> , 2014, 141, 064310.	1.2	3
103	Pushing the limit: investigation of hydrodynamic forces on a trapped particle kicked by a laser pulse. <i>Optics Express</i> , 2015, 23, 13141.	1.7	3
104	High-power intracavity frequency doubling of a Ti:sapphire femtosecond oscillator. <i>Applied Physics B: Lasers and Optics</i> , 2003, 76, 639-644.	1.1	2
105	Characterization of ultraviolet femtosecond pulse propagation in aluminum-coated capillary fibers. <i>Journal of Applied Physics</i> , 2005, 98, 033519.	1.1	2
106	Microscopic dynamics of a base protonation. <i>Chemical Physics Letters</i> , 2008, 463, 357-359.	1.2	2
107	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. <i>IEEE Transactions on Applied Superconductivity</i> , 1997, 7, 3726-3729.	1.1	1
108	THz time-domain spectroscopy of electro-optic crystals. , 0, , .		1

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109	Dispersion compensation with solid-core photonic bandgap fiber in an Yb-doped mode-locked fiber laser. , 2007, , .		1
110	Motion analysis of optically trapped particles and cells using 2D Fourier analysis. Optics Express, 2012, 20, 1953.	1.7	1
111	Vibrational relaxation of NO <sub>3</sub> <sup>•</sup> (aq). Chemical Physics, 2014, 442, 86-92.	0.9	1
112	Femtosecond spectroscopy of the dissociation and geminate recombination of aqueous carbondisulfide. , 0, , .		0
113	Femtosecond spectroscopy of the dissociation and geminate recombination of aqueous carbon disulfide. , 0, , .		0
114	Ultrafast dynamics of liquid water. , 0, , .		0
115	Nonlinear wave mixing in photonic crystal fibers. , 0, , .		0
116	Pulse propagation in photonic crystal fibers. , 0, , .		0
117	Reaction dynamics of aqueous peroxyxynitrite and peroxyxynitrous acid. , 2004, , 207-210.		0
118	Reorientation of hydroxide ions in water. , 2009, , .		0
119	Independent trapping, manipulation and characterization using fiber based CARS microspectroscopy.. , 2009, , .		0
120	The rotation of NO <sub>3</sub> <sup>•</sup> as a probe of molecular ion - water interactions. EPJ Web of Conferences, 2013, 41, 06002.	0.1	0
121	Fiber laser-based light source for CARS microspectroscopy. , 2007, , .		0
122	Nonlinear matching of Solitons - Continued redshift between silica and soft-glass fibers. , 2012, , .		0
123	All fiber based supercontinuum light source utilized for IR microscopy. , 2012, , .		0
124	Imaging of ions produced by femtosecond laser induced Coulomb explosion of molecules. Springer Series in Chemical Physics, 1998, , 444-446.	0.2	0