

# Rainer KÃ¼nnemeyer

## List of Publications by Year in descending order

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70  
papers

1,186  
citations

430874

18  
h-index

414414

32  
g-index

71  
all docs

71  
docs citations

71  
times ranked

1055  
citing authors

#	ARTICLE	IF	CITATIONS
1	Correction of Temperature Variation with Independent Water Samples to Predict Soluble Solids Content of Kiwifruit Juice Using NIR Spectroscopy. <i>Molecules</i> , 2022, 27, 504.	3.8	6
2	Interactions of Linearly Polarized and Unpolarized Light on Kiwifruit Using Aquaphotomics. <i>Molecules</i> , 2022, 27, 494.	3.8	2
3	Non-destructive detection of chilling injury in kiwifruit using a dual-laser scanning system with a principal component analysis - back propagation neural network. <i>Journal of Near Infrared Spectroscopy</i> , 2022, 30, 67-73.	1.5	3
4	Comparison of a dual-laser and a Vis-NIR spectroscopy system for detection of chilling injury in kiwifruit. <i>Postharvest Biology and Technology</i> , 2021, 175, 111418.	6.0	9
5	Potential of Vis-NIR spectroscopy for detection of chilling injury in kiwifruit. <i>Postharvest Biology and Technology</i> , 2020, 164, 111160.	6.0	36
6	A spatially resolved transmittance spectroscopy system for detecting internal rots in onions. <i>Postharvest Biology and Technology</i> , 2020, 163, 111141.	6.0	6
7	Investigating aquaphotomics for temperature-independent prediction of soluble solids content of pure apple juice. <i>Journal of Near Infrared Spectroscopy</i> , 2020, 28, 103-112.	1.5	14
8	Considerations Needed for Sensing Mineral Nutrient Levels in Pasture Using a Benchtop Laser-Induced Breakdown Spectroscopy System. <i>Smart Sensors, Measurement and Instrumentation</i> , 2019, , 387-421.	0.6	1
9	Optical properties of healthy and rotten onion flesh from 700 to 1000 nm. <i>Postharvest Biology and Technology</i> , 2018, 140, 1-10.	6.0	15
10	Validated multi-wavelength simulations of light transport in healthy onion. <i>Computers and Electronics in Agriculture</i> , 2018, 146, 22-30.	7.7	4
11	Nutrient quantification in fresh and dried mixtures of ryegrass and clover leaves using laser-induced breakdown spectroscopy. <i>Precision Agriculture</i> , 2018, 19, 823-839.	6.0	26
12	Investigations of optical geometry and sample positioning in NIRS transmittance for detecting vascular browning in apples. <i>Computers and Electronics in Agriculture</i> , 2018, 155, 32-40.	7.7	7
13	Classification of recyclables using laser-induced breakdown spectroscopy for waste management. <i>Spectroscopy Letters</i> , 2018, 51, 257-265.	1.0	16
14	Validated simulations of diffuse optical transmission measurements on produce. <i>Computers and Electronics in Agriculture</i> , 2017, 134, 94-101.	7.7	8
15	Comparison of hand-held near infrared spectrophotometers for fruit dry matter assessment. <i>Journal of Near Infrared Spectroscopy</i> , 2017, 25, 267-277.	1.5	44
16	Fruit orientation in NIR transmission for vascular browning in apples. , 2017, , .		1
17	Considerations needed for sensing mineral nutrient levels in fresh pasture using LIBS. , 2017, , .		0
18	Selective Surface Sintering Using a Laser-Induced Breakdown Spectroscopy System. <i>Journal of Spectroscopy</i> , 2017, 2017, 1-11.	1.3	2

#	ARTICLE	IF	CITATIONS
19	Multispectral scattering imaging and NIR interactance for apple firmness predictions. Postharvest Biology and Technology, 2016, 119, 58-68.	6.0	38
20	An Optimised Six-Wavelength Model for Predicting Kiwifruit Dry Matter. Journal of Near Infrared Spectroscopy, 2015, 23, 103-109.	1.5	4
21	Development of a multispectral imaging system for apple firmness prediction. , 2015, , .		1
22	Laser-induced breakdown spectroscopy analysis of sodium in pelletised pasture samples. , 2015, , .		3
23	Estimation of transient surge energy transferred with associated time delays for individual components of surge protector circuits. IET Power Electronics, 2015, 8, 685-692.	2.1	7
24	Relationship between tissue firmness and optical properties of "Royal Gala"™ apples from 400 to 1050nm. Postharvest Biology and Technology, 2014, 94, 89-96.	6.0	76
25	Performance of a V-trough photovoltaic/thermal concentrator. Solar Energy, 2014, 101, 19-27.	6.1	40
26	Thermal Stability of Intralipid Optical Phantoms. Applied Spectroscopy, 2013, 67, 993-996.	2.2	14
27	Numerical simulation of surge protection circuits and experimental verification using a lightning surge simulator. , 2012, , .		2
28	A power-saving modulation technique for time-of-flight range imaging sensors. Proceedings of SPIE, 2011, , .	0.8	3
29	Investigation of failure patterns of desktop computer power supplies using a lightning surge simulator and the generation of a database for a comprehensive surge propagation study. , 2010, , .		5
30	Temperature-dependent optical properties of Intralipid® measured with frequency-domain photon-migration spectroscopy. Journal of Biomedical Optics, 2010, 15, 017003.	2.6	31
31	Computer vision and image processing at the University of Waikato. , 2010, , .		1
32	Polarization tunable selective polariton generator. Applied Physics Letters, 2009, 94, 101111.	3.3	3
33	Characterizing liquid turbid media by frequency-domain photon-migration spectroscopy. Journal of Biomedical Optics, 2009, 14, 024041.	2.6	17
34	Accelerating Monte Carlo simulations with an NVIDIA® graphics processor. Computer Physics Communications, 2009, 180, 1983-1989.	7.5	22
35	Optical full Hadamard matrix multiplexing and noise effects. Applied Optics, 2009, 48, 2078.	2.1	37
36	Range imager performance comparison in homodyne and heterodyne operating modes. , 2009, , .		13

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37	Phase-polarisation contrast for surface plasmon resonance based on low cost grating substrates. <i>Current Applied Physics</i> , 2008, 8, 351-354.	2.4	10
38	Comparison of Hadamard imaging and compressed sensing for low resolution hyperspectral imaging. , 2008, , .		5
39	Temperature dependence of near-infrared spectra of whole blood. <i>Journal of Biomedical Optics</i> , 2008, 13, 034016.	2.6	6
40	Polarisation and wavelength selective transmission through nanohole structures with multiple grating geometry. <i>Optics Express</i> , 2008, 16, 5832.	3.4	13
41	Staff perceptions of higher education science and engineering learning communities. <i>Research in Science and Technological Education</i> , 2008, 26, 279-294.	2.5	7
42	Reference beam method for source modulated Hadamard multiplexing. , 2008, , .		4
43	Design considerations of selective polariton generators for multi-state plasmonic devices. <i>Proceedings of SPIE</i> , 2008, , .	0.8	0
44	Low cost optical particle detection for lab on chip systems based on DVD technology. <i>Proceedings of SPIE</i> , 2007, , .	0.8	1
45	Visible/Near Infrared Hyperspectral Imaging via Spatial Illumination Source Modulation. <i>Journal of Near Infrared Spectroscopy</i> , 2007, 15, 395-399.	1.5	6
46	Interferometric surface plasmon resonance based on low-cost grating substrates. , 2007, , .		0
47	Measuring optical temperature coefficients of Intralipid®. <i>Physics in Medicine and Biology</i> , 2007, 52, 2367-2378.	3.0	18
48	Amplified reference pulse storage for low-coherence pulsed Doppler lidar. <i>Applied Optics</i> , 2006, 45, 8346.	2.1	3
49	<title>Fluorescence photon migration techniques for the on-farm measurement of somatic cell count in fresh cow's milk</title>. , 2005, , .		0
50	<title>On-line milk spectrometry: analysis of bovine milk composition</title>. , 2005, 5852, 698.		1
51	Electronically controlled, intravaginal drug delivery. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2004, 218, 1409-1415.	2.4	4
52	Control, communication and monitoring of intravaginal drug delivery in dairy cows. <i>International Journal of Pharmaceutics</i> , 2004, 282, 35-44.	5.2	17
53	Light distribution inside mandarin fruit during internal quality assessment by NIR spectroscopy. <i>Postharvest Biology and Technology</i> , 2003, 27, 185-196.	6.0	95
54	Single sideband techniques for laser Doppler velocimeter frequency offset. <i>Optical Engineering</i> , 2003, 42, 3239.	1.0	8

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55	Internal Quality Assessment of Mandarin Fruit by vis/NIR Spectroscopy. Journal of Near Infrared Spectroscopy, 2003, 11, 323-332.	1.5	101
56	Reference-beam storage for long-range low-coherence pulsed Doppler lidar. Applied Optics, 2001, 40, 3076.	2.1	12
57	A simple reflectometer for on-farm pasture assessment. Computers and Electronics in Agriculture, 2001, 31, 125-136.	7.7	19
58	A Low-Cost System for the Grading of Kiwifruit. Journal of Near Infrared Spectroscopy, 1999, 7, 9-15.	1.5	34
59	USING NEAR-INFRARED (NIR) LIGHT TO ESTIMATE THE SOLUBLE SOLIDS AND DRY MATTER CONTENT OF KIWIFRUIT. Acta Horticulturae, 1998, , 109-114.	0.2	16
60	<title>New optical configuration for flow cytometric sorting of aspherical cells</title>. , 1997, , .		0
61	Method of Wavelength Selection for Partial Least Squares. Analyst, The, 1997, 122, 1531-1537.	3.5	115
62	Radially symmetric excitation and collection optics for flow cytometric sorting of aspherical cells. , 1997, 29, 363-370.		4
63	Time-resolved measurements of excited state densities in a copper vapor laser. IEEE Journal of Quantum Electronics, 1990, 26, 1609-1619.	1.9	10
64	Radial Excited-State Density Effects In A Small-Bore Copper Vapour Laser. , 1989, 1041, 25.		8
65	Time-resolved measurements of population densities in a Sr <sup>+</sup> recombination laser. IEEE Journal of Quantum Electronics, 1987, 23, 2028-2032.	1.9	15
66	Collisional and radiative processes in a laser-pumped barium vapour. Journal of Physics B: Atomic and Molecular Physics, 1986, 19, 2645-2658.	1.6	14
67	Oscillator strengths of neutral and singly ionised molybdenum. Journal of Quantitative Spectroscopy and Radiative Transfer, 1983, 29, 507-516.	2.3	26
68	Resonant ionisation behaviour of laser-pumped barium vapour. Journal of Physics B: Atomic and Molecular Physics, 1983, 16, L607-L611.	1.6	18
69	A simple microcontroller based digital lock-in amplifier for the detection of low level optical signals. , 0, , .		21
70	Identification of Contamination Levels and the Microstructure of Metal Injection Moulded Titanium. Key Engineering Materials, 0, 704, 161-169.	0.4	4