Thomas Arnold

List of Publications by Year
in descending order

42 papers	283 citations	1162889 8 h-index	1058333 14 g-index
42 all docs	42 docs citations	42 times ranked	347 citing authors

#	Article	IF	Citations
1	Hyperspectral imaging: a novel approach for plant root phenotyping. Plant Methods, 2018, 14, 84.	1.9	53
2	Multi-spectral video endoscopy system for the detection of cancerous tissue. Pattern Recognition Letters, 2013, 34, 85-93.	2.6	44
3	UAV-based measurement of vegetation indices for environmental monitoring. , 2013, , .		26
4	Simulating the warping of thin coated Si wafers using Ansys layered shell elements. Composite Structures, 2016, 140, 668-674.	3.1	22
5	RGB and Spectral Root Imaging for Plant Phenotyping and Physiological Research: Experimental Setup and Imaging Protocols. Journal of Visualized Experiments, 2017, , .	0.2	22
6	UAV-based environmental monitoring using multi-spectral imaging. Proceedings of SPIE, 2010, , .	0.8	15
7	Performance Evaluation of Displacement Estimators for Real-Time Ultrasonic Strain and Blood Flow Imaging With Improved Spatial Resolution. IEEE Transactions on Instrumentation and Measurement, 2007, 56, 1275-1284.	2.4	13
8	Hyperspectral video endoscope for intra-surgery tissue classification using auto-fluorescence and reflectance spectroscopy. , 2011, , .		12
9	UAV based Multi-spectral Imaging System for Environmental Monitoring. TM Technisches Messen, 2011, 78, 503-507.	0.3	12
10	High-sensitivity hyperspectral imager for biomedical video diagnostic applications. Proceedings of SPIE, 2010, , .	0.8	10
11	UAV-based multispectral environmental monitoring. , 2010, , .		8
12	Detecting and discriminating PE and PP polymers for plastics recycling using NIR imaging spectroscopy. , 2010, , .		6
13	High-sensitivity hyper-spectral video endoscopy system for intra-surgical tissue classification. , 2010, , .		6
14	UAV-based multi-spectral environmental monitoring. Proceedings of SPIE, 2012, , .	0.8	5
15	Stress-warping relation in thin film coated wafers. Modelling and Simulation in Materials Science and Engineering, 2017, 25, 025005.	0.8	5
16	Hyper-spectral video endoscopy system for intra-surgery tissue classification. , 2013, , .		3
17	Application of NIR hyperspectral imaging for water distribution measurements in plant roots and soil. , 2016, , .		3
18	Displacement Estimators for Real-Time Ultrasonic Strain and Blood Flow Imaging with Improved Spatial Resolution. Conference Record - IEEE Instrumentation and Measurement Technology Conference, 2006, , .	0.0	2

#	Article	IF	Citations
19	Investigation of charge carrier dynamics in silicon wafers using terahertz imaging spectroscopy. , 2012, , .		2
20	Simulation of the deformation behaviour of large thin silicon wafers and comparison with experimental findings. , 2015, , .		2
21	Near infrared hyperspectral imaging system for root phenotyping. , 2017, , .		2
22	Hyper-Spectral Video Endoscope for Intra-Surgery Tissue Classification using Auto-Fluorescence and Reflectance Spectroscopy. , 2011, , .		2
23	Displacement Estimators for Real-Time Ultrasonic Strain and Blood Flow Imaging with Improved Spatial Resolution. Conference Record - IEEE Instrumentation and Measurement Technology Conference, 2006, , .	0.0	2
24	Near-infrared imaging spectroscopy for counterfeit drug detection. Proceedings of SPIE, 2011, , .	0.8	1
25	Detection of fire protection and mineral glasses in industrial recycling using Raman mapping spectroscopy. , 2011, , .		1
26	Industrial Raman mapping spectroscopy for mining applications. , 2012, , .		1
27	Inspection of mechanical and electrical properties of silicon wafers using terahertz tomography and spectroscopy. , 2015, , .		1
28	Fluorescent marker-based and marker-free discrimination between healthy and cancerous human tissues using hyper-spectral imaging. Proceedings of SPIE, 2015, , .	0.8	1
29	Study of near-infrared imaging spectroscopy for the inspection of peeled potato tubers. , 2018, , .		1
30	Detection of flexographic inks using NIR LCTF-based hyperspectral imaging. , 2010, , .		0
31	Snapshot spectral imaging system. , 2010, , .		0
32	Snapshot spectral imaging demonstrator. Proceedings of SPIE, 2011, , .	0.8	0
33	Optimisation of the diffractive optical element for snapshot spectral imaging used in fluorescence microscopy. Proceedings of SPIE, 2012, , .	0.8	0
34	Investigation of optically injected charge carrier dynamics in silicon wafers using terahertz spectroscopic imaging. Proceedings of SPIE, 2012, , .	0.8	0
35	Snapshot spectral imaging using optimized diffractive optical elements. Proceedings of SPIE, 2012, , .	0.8	0
36	Non-contact measurement of silicon thin wafer warpage by THz tomography and laser triangulation. , 2016, , .		0

#	Article	IF	Citations
37	Detection and identification of foreign bodies in polymer parts for use in semiconductor manufacturing. , 2017, , .		0
38	Evaluation of an indirect slag level measurement for liquid steel. , 2017, , .		0
39	Impurity detection in polymer parts for the semiconductor manufacturing industry. TM Technisches Messen, 2018, 85, 700-712.	0.3	0
40	Automated Analysis of Multi-Spectral M-FISH Images for Breast Carcinoma Staging. , 2013, , .		0
41	Study of visible imaging and near-infrared imaging spectroscopy for plant root phenotyping. , 2018, , .		0
42	Inspection of Packaged Integrated Circuits using Terahertz Radiation. International Journal on Smart Sensing and Intelligent Systems, 2020, 7, 1-4.	0.4	0