Philip Siegmann

List of Publications by Year
in descending order

31 papers	379 citations	840585 11 h-index	839398 18 g-index
32 all docs	32 docs citations	32 times ranked	327 citing authors

#	Article	IF	Citations
1	Exploratory study of particle-bound polycyclic aromatic hydrocarbons in different environments of Mexico City. Atmospheric Environment, 2004, 38, 4957-4968.	1.9	53
2	Simultaneous in-and-out-of-plane displacement measurements using fringe projection and digital image correlation. Optics and Lasers in Engineering, 2014, 52, 66-74.	2.0	51
3	A simultaneous in- and out-of-plane displacement measurement method. Optics Letters, 2011, 36, 10.	1.7	41
4	Traffic sign recognition system for inventory purposes. , 2008, , .		30
5	Computational load reduction in decision functions using support vector machines. Signal Processing, 2009, 89, 2066-2071.	2.1	25
6	Integrating fringe projection and digital image correlation for high-quality measurements of shape changes. Optical Engineering, 2014, 53, 044106.	0.5	24
7	Optical technique for the automatic detection and measurement of surface defects on thin metallic wires. Applied Optics, 2000, 39, 539.	2.1	20
8	Fundaments in Luminance and Retroreflectivity Measurements of Vertical Traffic Signs Using a Color Digital Camera. IEEE Transactions on Instrumentation and Measurement, 2008, 57, 607-615.	2.4	16
9	A probabilistic source attribution model for nanoparticles in air suspension applied on the main roads of Madrid and Mexico City. Atmospheric Environment, 2008, 42, 3937-3948.	1.9	15
10	Robust approach to regularize an isochromatic fringe map. Applied Optics, 2009, 48, E24.	2.1	15
11	Automatic Control of Video Surveillance Camera Sabotage. Lecture Notes in Computer Science, 2007, , 222-231.	1.0	13
12	Improved 3D displacement measurements method and calibration of a combined fringe projection and 2D-DIC system. Optics and Lasers in Engineering, 2017, 88, 255-264.	2.0	13
13	Classification of surface structures on fine metallic wires. Applied Surface Science, 2001, 180, 191-199.	3.1	11
14	Experimental approach for the determination of the Bridgman's necking parameters. Measurement Science and Technology, 2019, 30, 114003.	1.4	10
15	Integration of fringe projection and two-dimensional digital image correlation for three-dimensional displacements measurements. Optical Engineering, 2016, 55, 121711.	0.5	8
16	Traffic sign shape classification based on Support Vector Machines and the FFT of the signature of blobs. Intelligent Vehicles Symposium, 2009 IEEE, 2007, , .	0.0	7
17	A Novel Experimental Approach for Calculating Stress Intensity Factors from Isochromatic Data. Experimental Mechanics, 2010, 50, 273-281.	1.1	5
18	Traffic sign array decomposition using support vector machines. , 2008, , .		4

#	Article	IF	Citations
19	\<title>In-line detection and evaluation of surface defects on thin metallic wires\</title>. , 2001, , .		3
20	Comparison between optical techniques and confocal microscopy for defect detection on thin wires. Applied Surface Science, 2004, 238, 375-379.	3.1	3
21	Tuning L1-SVM Hyperparameters with Modified Radius Margin Bounds and Simulated Annealing. , 2007, , 284-291.		3
22	Diffraction in wide slits with semi-cylindrical edges. Optik, 2002, 113, 57-62.	1.4	1
23	Static and dynamic detection of axial surface defects on metallic wires by conical triple laser reflection. Optics and Lasers in Engineering, 2004, 42, 203-218.	2.0	1
24	An automated calibration system that combines fringe projection and 2D digital image correlation. Proceedings of SPIE, 2015, , .	0.8	1
25	Multi-class Support Vector Machines Based on Arranged Decision Graphs and Particle Swarm Optimization for Model Selection. Lecture Notes in Computer Science, 2007, , 238-245.	1.0	1
26	A Robust Approach to Demodulating and Unwrapping Phase-stepped Photoelastic Data. Experimental Mechanics, 2005, 45, 278-289.	1.1	1
27	Determination of the isoclinic map for complex photoelastic fringe patterns. Conference Proceedings of the Society for Experimental Mechanics, 2011, , 79-85.	0.3	1
28	Photoelectric and diffusion charging measurements of fine particulate air pollution along the main roads of the city of Madrid from 1999 to 2021. Atmospheric Environment, 2022, 282, 119160.	1.9	1
29	Analytical determination of the uncertainty and the optimum sampling frequency for one-dimensional images with noise. Applied Optics, 2008, 47, 6350.	2.1	0
30	Evaluation of the surface finish and airborne particles generated by nanosecond pulsed laser rastering processes. Journal of Laser Applications, 2018, 30, 012010.	0.8	0
31	Road Sign Analysis Using Multisensory Data. Lecture Notes in Computer Science, 2007, , 251-260.	1.0	0