

Philip Siegmann

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

31
papers

295
citations

10
h-index

16
g-index

32
ext. papers

333
ext. citations

2.8
avg, IF

2.91
L-index

#	Paper	IF	Citations
31	Photoelectric and diffusion charging measurements of fine particulate air pollution along the main roads of the city of Madrid from 1999 to 2021. <i>Atmospheric Environment</i> , 2022 , 119160	5.3	
30	Experimental approach for the determination of the Bridgman necking parameters. <i>Measurement Science and Technology</i> , 2019 , 30, 114003	2	4
29	Evaluation of the surface finish and airborne particles generated by nanosecond pulsed laser rastering processes. <i>Journal of Laser Applications</i> , 2018 , 30, 012010	2.1	
28	Improved 3D displacement measurements method and calibration of a combined fringe projection and 2D-DIC system. <i>Optics and Lasers in Engineering</i> , 2017 , 88, 255-264	4.6	10
27	Integration of fringe projection and two-dimensional digital image correlation for three-dimensional displacements measurements. <i>Optical Engineering</i> , 2016 , 55, 121711	1.1	4
26	An automated calibration system that combines fringe projection and 2D digital image correlation 2015 ,		1
25	Integrating fringe projection and digital image correlation for high-quality measurements of shape changes. <i>Optical Engineering</i> , 2014 , 53, 044106	1.1	20
24	Simultaneous in-and-out-of-plane displacement measurements using fringe projection and digital image correlation. <i>Optics and Lasers in Engineering</i> , 2014 , 52, 66-74	4.6	40
23	A simultaneous in- and out-of-plane displacement measurement method. <i>Optics Letters</i> , 2011 , 36, 10-2	3	32
22	Determination of the isoclinic map for complex photoelastic fringe patterns. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2011 , 79-85	0.3	
21	A Novel Experimental Approach for Calculating Stress Intensity Factors from Isochromatic Data. <i>Experimental Mechanics</i> , 2010 , 50, 273-281	2.6	3
20	Computational load reduction in decision functions using support vector machines. <i>Signal Processing</i> , 2009 , 89, 2066-2071	4.4	19
19	Robust approach to regularize an isochromatic fringe map. <i>Applied Optics</i> , 2009 , 48, E24-34	0.2	12
18	Fundamentals in Luminance and Retroreflectivity Measurements of Vertical Traffic Signs Using a Color Digital Camera. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2008 , 57, 607-615	5.2	11
17	A probabilistic source attribution model for nanoparticles in air suspension applied on the main roads of Madrid and Mexico City. <i>Atmospheric Environment</i> , 2008 , 42, 3937-3948	5.3	12
16	Traffic sign recognition system for inventory purposes 2008 ,		25
15	Analytical determination of the uncertainty and the optimum sampling frequency for one-dimensional images with noise. <i>Applied Optics</i> , 2008 , 47, 6350-6	0.2	

14	Traffic sign array decomposition using support vector machines 2008 ,		1
13	Traffic sign shape classification based on Support Vector Machines and the FFT of the signature of blobs. <i>Intelligent Vehicles Symposium, 2009 IEEE</i> , 2007 ,		7
12	Automatic Control of Video Surveillance Camera Sabotage. <i>Lecture Notes in Computer Science</i> , 2007 , 222-231	0.9	9
11	Tuning L1-SVM Hyperparameters with Modified Radius Margin Bounds and Simulated Annealing 2007 , 284-291		3
10	Road Sign Analysis Using Multisensory Data. <i>Lecture Notes in Computer Science</i> , 2007 , 251-260	0.9	
9	Multi-class Support Vector Machines Based on Arranged Decision Graphs and Particle Swarm Optimization for Model Selection. <i>Lecture Notes in Computer Science</i> , 2007 , 238-245	0.9	1
8	An Approach to the Recognition of Informational Traffic Signs Based on 2-D Homography and SVMs. <i>Lecture Notes in Computer Science</i> , 2006 , 1163-1173	0.9	0
7	A robust approach to demodulating and unwrapping phase-stepped photoelastic data 2005 , 45, 278		1
6	Exploratory study of particle-bound polycyclic aromatic hydrocarbons in different environments of Mexico City. <i>Atmospheric Environment</i> , 2004 , 38, 4957-4968	5.3	49
5	Static and dynamic detection of axial surface defects on metallic wires by conical triple laser reflection. <i>Optics and Lasers in Engineering</i> , 2004 , 42, 203-218	4.6	1
4	Comparison between optical techniques and confocal microscopy for defect detection on thin wires. <i>Applied Surface Science</i> , 2004 , 238, 375-379	6.7	3
3	Diffraction in wide slits with semi-cylindrical edges. <i>Optik</i> , 2002 , 113, 57-62	2.5	1
2	Classification of surface structures on fine metallic wires. <i>Applied Surface Science</i> , 2001 , 180, 191-199	6.7	9
1	Optical technique for the automatic detection and measurement of surface defects on thin metallic wires. <i>Applied Optics</i> , 2000 , 39, 539-45	1.7	16