

Hao Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

39
papers

484
citations

759233

12
h-index

752698

20
g-index

39
all docs

39
docs citations

39
times ranked

406
citing authors

#	ARTICLE	IF	CITATIONS
1	Identification of grape diseases using image analysis and BP neural networks. <i>Multimedia Tools and Applications</i> , 2020, 79, 14539-14551.	3.9	61
2	A simple colorimetric probe based on anti-aggregation of AuNPs for rapid and sensitive detection of malathion in environmental samples. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 2645-2652.	3.7	44
3	Colorimetric detection of melamine in milk by using gold nanoparticles-based LSPR via optical fibers. <i>PLoS ONE</i> , 2017, 12, e0177131.	2.5	38
4	Studies of tropical fruit ripening using three different spectroscopic techniques. <i>Journal of Biomedical Optics</i> , 2014, 19, 067001.	2.6	31
5	Analogue circuit fault diagnosis based on convolution neural network. <i>Electronics Letters</i> , 2019, 55, 1277-1279.	1.0	24
6	Laser spectroscopy applied to environmental, ecological, food safety, and biomedical research. <i>Optics Express</i> , 2016, 24, A515.	3.4	23
7	Optical detection of middle ear infection using spectroscopic techniques: phantom experiments. <i>Journal of Biomedical Optics</i> , 2015, 20, 057001.	2.6	21
8	Localized surface plasmon resonance-based abscisic acid biosensor using aptamer-functionalized gold nanoparticles. <i>PLoS ONE</i> , 2017, 12, e0185530.	2.5	19
9	Assessment of human sinus cavity air volume using tunable diode laser spectroscopy, with application to sinusitis diagnostics. <i>Journal of Biophotonics</i> , 2015, 8, 985-992.	2.3	17
10	Application of Tunable Diode Laser Spectroscopy for the Assessment of Food Quality. <i>Applied Spectroscopy</i> , 2017, 71, 929-938.	2.2	16
11	Application of Relative Entropy and Gradient Boosting Decision Tree to Fault Prognosis in Electronic Circuits. <i>Symmetry</i> , 2018, 10, 495.	2.2	16
12	Vis/NIR reflectance spectroscopy for hybrid rice variety identification and chlorophyll content evaluation for different nitrogen fertilizer levels. <i>Royal Society Open Science</i> , 2019, 6, 191132.	2.4	14
13	Identification of Edible Gelatin Origins by Data Fusion of NIRS, Fluorescence Spectroscopy, and LIBS. <i>Food Analytical Methods</i> , 2021, 14, 525-536.	2.6	13
14	A multi-channel localized surface plasmon resonance system for absorptiometric determination of abscisic acid by using gold nanoparticles functionalized with a polyadenine-tailed aptamer. <i>Mikrochimica Acta</i> , 2020, 187, 20.	5.0	12
15	Soft fault diagnosis of analog circuits based on semi-supervised support vector machine. <i>Analog Integrated Circuits and Signal Processing</i> , 2021, 108, 305-315.	1.4	12
16	Laser spectroscopic studies of gas diffusion in alumina ceramics. <i>Optics Express</i> , 2016, 24, 1986.	3.4	11
17	Near Infrared Spectroscopy Based on Supervised Pattern Recognition Methods for Rapid Identification of Adulterated Edible Gelatin. <i>Journal of Spectroscopy</i> , 2018, 2018, 1-9.	1.3	11
18	Classification of corn kernels grades using image analysis and support vector machine. <i>Advances in Mechanical Engineering</i> , 2018, 10, 168781401881764.	1.6	11

#	ARTICLE	IF	CITATIONS
19	Edible Gelatin Diagnosis Using Laser-Induced Breakdown Spectroscopy and Partial Least Square Assisted Support Vector Machine. <i>Sensors</i> , 2019, 19, 4225.	3.8	10
20	Diagnostics of femoral head status in humans using laser spectroscopy – <i>In vitro</i> studies. <i>Journal of Biophotonics</i> , 2017, 10, 1356-1364.	2.3	9
21	Towards an optical diagnostic system for otitis media using a combination of otoscopy and spectroscopy. <i>Journal of Biophotonics</i> , 2019, 12, e201800305.	2.3	9
22	Gas exchange in fruits related to skin condition and fruit ripening studied with diode laser spectroscopy. <i>Journal of Biomedical Optics</i> , 2016, 21, 127007.	2.6	8
23	Parametric Fault Diagnosis of Analog Circuits Based on a Semi-Supervised Algorithm. <i>Symmetry</i> , 2019, 11, 228.	2.2	8
24	Ultrasensitive detection of plant hormone abscisic acid-based surface-enhanced Raman spectroscopy aptamer sensor. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 2757-2766.	3.7	8
25	An efficient LSPR method to quantitatively detect dimethoate: Development, characterization and evaluation. <i>PLoS ONE</i> , 2020, 15, e0239632.	2.5	7
26	Laser-based gas absorption spectroscopy in decaying hip bone: water vapor as a predictor of osteonecrosis. <i>Journal of Biomedical Optics</i> , 2019, 24, 1.	2.6	7
27	Optical Characterization of Paper Aging Based on Laser-Induced Fluorescence (LIF) Spectroscopy. <i>Applied Spectroscopy</i> , 2018, 72, 913-920.	2.2	6
28	Detection of free oxygen and water vapor in fertilized and unfertilized eggs by diode laser spectroscopy – Exploration of diagnostics possibilities. <i>Journal of Biophotonics</i> , 2018, 11, e201700154.	2.3	6
29	Surface-enhanced Raman spectroscopy for the quantitative detection of abscisic acid in wheat leaves using silver coated gold nanocomposites. <i>Spectroscopy Letters</i> , 2021, 54, 732-741.	1.0	5
30	Evaluation of Yogurt Quality during Storage by Fluorescence Spectroscopy. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 131.	2.5	4
31	Fault Inference of Electronic Equipment Based on Multi-State Fuzzy Bayesian Network. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 4248.	2.5	2
32	Optical detection of otitis media using modified spectroscopic otoscope. , 2018, , .		1
33	Laser Spectroscopy applied to Environmental, Ecological, Agricultural and Food Safety Research. , 2017, , .		0
34	Studies on fruit ageing by fluorescence spectroscopy and diode laser absorption spectroscopy. , 2013, , .		0
35	Laser Applications in Food and Infectious Disease Monitoring. , 2016, , .		0
36	Laser Spectroscopy Applications for Ecology and Environmental Monitoring. , 2016, , .		0

#	ARTICLE	IF	CITATIONS
37	Laser Spectroscopy to Meet some Challenges in Medicine. , 2017, , .		0
38	Diagnostics of Femoral Head Status in Humans using High-Resolution Laser Spectroscopy: In Vitro Studies. , 2017, , .		0
39	The effect of shell thickness on plasmonic behaviors of Ag@MoS2 core-shell nanoparticles. , 2020, , .		0