Hao Zhang

List of Publications by Year
in descending order

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	Ultrasensitive detection of plant hormone abscisic acid-based surface-enhanced Raman spectroscopy aptamer sensor. Analytical and Bioanalytical Chemistry, 2022, 414, 2757-2766.	3.7	8
2	Identification of Edible Gelatin Origins by Data Fusion of NIRS, Fluorescence Spectroscopy, and LIBS. Food Analytical Methods, 2021, 14, 525-536.	2.6	13
3	Soft fault diagnosis of analog circuits based on semi-supervised support vector machine. Analog Integrated Circuits and Signal Processing, 2021, 108, 305-315.	1.4	12
4	Surface-enhanced Raman spectroscopy for the quantitative detection of abscisic acid in wheat leaves using silver coated gold nanocomposites. Spectroscopy Letters, 2021, 54, 732-741.	1.0	5
5	Identification of grape diseases using image analysis and BP neural networks. Multimedia Tools and Applications, 2020, 79, 14539-14551.	3.9	61
6	A multi-channel localized surface plasmon resonance system for absorptiometric determination of abscisic acid by using gold nanoparticles functionalized with a polyadenine-tailed aptamer. Mikrochimica Acta, 2020, 187, 20.	5.0	12
7	An efficient LSPR method to quantitatively detect dimethoate: Development, characterization and evaluation. PLoS ONE, 2020, 15, e0239632.	2.5	7
8	The effect of shell thickness on plasmonic behaviors of Ag@MoS2 core-shell nanoparticles. , 2020, , .		0
9	Edible Gelatin Diagnosis Using Laser-Induced Breakdown Spectroscopy and Partial Least Square Assisted Support Vector Machine. Sensors, 2019, 19, 4225.	3.8	10
10	Vis/NIR reflectance spectroscopy for hybrid rice variety identification and chlorophyll content evaluation for different nitrogen fertilizer levels. Royal Society Open Science, 2019, 6, 191132.	2.4	14
11	A simple colorimetric probe based on anti-aggregation of AuNPs for rapid and sensitive detection of malathion in environmental samples. Analytical and Bioanalytical Chemistry, 2019, 411, 2645-2652.	3.7	44
12	Evaluation of Yogurt Quality during Storage by Fluorescence Spectroscopy. Applied Sciences (Switzerland), 2019, 9, 131.	2.5	4
13	Parametric Fault Diagnosis of Analog Circuits Based on a Semi-Supervised Algorithm. Symmetry, 2019, 11, 228.	2.2	8
14	Towards an optical diagnostic system for otitis media using a combination of otoscopy and spectroscopy. Journal of Biophotonics, 2019, 12, e201800305.	2.3	9
15	Fault Inference of Electronic Equipment Based on Multi-State Fuzzy Bayesian Network. Applied Sciences (Switzerland), 2019, 9, 4248.	2.5	2
16	Analogue circuit fault diagnosis based on convolution neural network. Electronics Letters, 2019, 55, 1277-1279.	1.0	24
17	Laser-based gas absorption spectroscopy in decaying hip bone: water vapor as a predictor of osteonecrosis. Journal of Biomedical Optics, 2019, 24, 1.	2.6	7
18	Optical Characterization of Paper Aging Based on Laser-Induced Fluorescence (LIF) Spectroscopy. Applied Spectroscopy, 2018, 72, 913-920.	2.2	6

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19	Detection of free oxygen and water vapor in fertilized and unfertilized eggs by diode laser spectroscopyâ€"Exploration of diagnostics possibilities. Journal of Biophotonics, 2018, 11, e201700154.	2.3	6
20	Near Infrared Spectroscopy Based on Supervised Pattern Recognition Methods for Rapid Identification of Adulterated Edible Gelatin. Journal of Spectroscopy, 2018, 2018, 1-9.	1.3	11
21	Optical detection of otitis media using modified spectroscopic otoscope. , 2018, , .		1
22	Classification of corn kernels grades using image analysis and support vector machine. Advances in Mechanical Engineering, 2018, 10, 168781401881764.	1.6	11
23	Application of Relative Entropy and Gradient Boosting Decision Tree to Fault Prognosis in Electronic Circuits. Symmetry, 2018, 10, 495.	2.2	16
24	Diagnostics of femoral head status in humans using laser spectroscopy â€“ In vitro studies. Journal of Biophotonics, 2017, 10, 1356-1364.	2.3	9
25	Application of Tunable Diode Laser Spectroscopy for the Assessment of Food Quality. Applied Spectroscopy, 2017, 71, 929-938.	2.2	16
26	Laser Spectroscopy applied to Environmental, Ecological, Agricultural and Food Safety Research. , 2017, , .		0
27	Colorimetric detection of melamine in milk by using gold nanoparticles-based LSPR via optical fibers. PLoS ONE, 2017, 12, e0177131.	2.5	38
28	Localized surface plasmon resonance-based abscisic acid biosensor using aptamer-functionalized gold nanoparticles. PLoS ONE, 2017, 12, e0185530.	2.5	19
29	Laser Spectroscopy to Meet some Challenges in Medicine. , 2017, , .		0
30	Diagnostics of Femoral Head Status in Humans using High-Resolution Laser Spectroscopy: In Vitro Studies. , 2017, , .		0
31	Gas exchange in fruits related to skin condition and fruit ripening studied with diode laser spectroscopy. Journal of Biomedical Optics, 2016, 21, 127007.	2.6	8
32	Laser spectroscopy applied to environmental, ecological, food safety, and biomedical research. Optics Express, 2016, 24, A515.	3.4	23
33	Laser spectroscopic studies of gas diffusion in alumina ceramics. Optics Express, 2016, 24, 1986.	3.4	11
34	Laser Applications in Food and Infectious Disease Monitoring. , 2016, , .		0
35	Laser Spectroscopy Applications for Ecology and Environmental Monitoring. , 2016, , .		0
36	Assessment of human sinus cavity air volume using tunable diode laser spectroscopy, with application to sinusitis diagnostics. Journal of Biophotonics, 2015, 8, 985-992.	2.3	17

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37	Optical detection of middle ear infection using spectroscopic techniques: phantom experiments. Journal of Biomedical Optics, 2015, 20, 057001.	2.6	21
38	Studies of tropical fruit ripening using three different spectroscopic techniques. Journal of Biomedical Optics, 2014, 19, 067001.	2.6	31
39	Studies on fruit ageing by fluorescence spectroscopy and diode laser absorption spectroscopy. , 2013, , .		0