Zhenyuan Wang

List of Publications by Citations

56 papers	503 citations	15 h-index	18 g-index
60 ext. papers	675 ext. citations	3.3 avg, IF	3.77 L-index

#	Paper	IF	Citations
56	Research progress in the estimation of the postmortem interval by Chinese forensic scholars. *Forensic Sciences Research*, **2016**, 1, 3-13	3.6	30
55	Estimation of the late postmortem interval using FTIR spectroscopy and chemometrics in human skeletal remains. *Forensic Science International*, **2017**, 281, 113-120	2.6	26
54	Estimation of the age of human bloodstains under the simulated indoor and outdoor crime scene conditions by ATR-FTIR spectroscopy. *Scientific Reports*, **2017**, 7, 13254	4.9	25
53	Human and non-human bone identification using FTIR spectroscopy. *International Journal of Legal Medicine*, **2019**, 133, 269-276	3.1	24
52	Curcumin alleviates brain edema by lowering AQP4 expression levels in a rat model of hypoxia-hypercapnia-induced brain damage. *Experimental and Therapeutic Medicine*, **2016**, 11, 709-716	2.1	23
51	Application of Fourier transform infrared spectroscopy with chemometrics on postmortem interval estimation based on pericardial fluids. *Scientific Reports*, **2017**, 7, 18013	4.9	21
50	Species identification of bloodstains by ATR-FTIR spectroscopy: the effects of bloodstain age and the deposition environment. *International Journal of Legal Medicine*, **2018**, 132, 667-674	3.1	21
49	Characterization of postmortem biochemical changes in rabbit plasma using ATR-FTIR combined with chemometrics: A preliminary study. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2017**, 173, 733-739	4.4	20
48	Analysis of postmortem metabolic changes in rat kidney cortex using Fourier transform infrared spectroscopy. *Spectroscopy*, **2008**, 22, 21-31		20
47	Digital whole-slide image analysis for automated diatom test in forensic cases of drowning using a convolutional neural network algorithm. *Forensic Science International*, **2019**, 302, 109922	2.6	19
46	Identification of Pulmonary Edema in Forensic Autopsy Cases of Sudden Cardiac Death Using Fourier Transform Infrared Microspectroscopy: A Pilot Study. *Analytical Chemistry*, **2018**, 90, 2708-2715	7.8	16
45	Attenuated total reflection Fourier transform infrared spectroscopic investigation of the postmortem metabolic process in rat and human kidney cortex. *Applied Spectroscopy*, **2010**, 64, 268-74	3.1	16
44	Estimation of Postmortem Interval in Rat Liver and Spleen Using Fourier Transform Infrared Spectroscopy. *Spectroscopy Letters*, **2009**, 42, 108-116	1.1	16
43	Estimation of the age of human semen stains by attenuated total reflection Fourier transform infrared spectroscopy: a preliminary study. *Forensic Sciences Research*, **2020**, 5, 119-125	3.6	16
42	UV-Vis and ATR-FTIR spectroscopic investigations of postmortem interval based on the changes in rabbit plasma. *PLoS ONE*, **2017**, 12, e0182161	3.7	15
41	Application of MALDI-TOF MS for Estimating the Postmortem Interval in Rat Muscle Samples. *Journal of Forensic Sciences*, **2017**, 62, 1345-1350	1.8	12
40	Changes in Attenuated Total Reflection Fourier Transform Infrared Spectra as Blood Dries Out. *Journal of Forensic Sciences*, **2017**, 62, 761-767	1.8	12

39	Predicting postmortem interval based on microbial community sequences and machine learning algorithms. *Environmental Microbiology*, **2020**, 22, 2273-2291	5.2	12
38	Identification of pulmonary edema in forensic autopsy cases of fatal anaphylactic shock using Fourier transform infrared microspectroscopy. *International Journal of Legal Medicine*, **2018**, 132, 477-486	3.1	12
37	Identification of antemortem, perimortem and postmortem fractures by FTIR spectroscopy based on a rabbit tibial fracture model. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2020**, 239, 118535	4.4	11
36	MALDI-TOF MS as a Novel Tool for the Estimation of Postmortem Interval in Liver Tissue Samples. *Scientific Reports*, **2017**, 7, 4887	4.9	10
35	Evaluating the effects of causes of death on postmortem interval estimation by ATR-FTIR spectroscopy. *International Journal of Legal Medicine*, **2020**, 134, 565-574	3.1	10
34	The relationship between polymorphisms of BDNFOS and BDNF genes and heroin addiction in the Han Chinese population. *Journal of Gene Medicine*, **2016**, 18, 288-293	3.5	9
33	Application of FTIR spectroscopy for traumatic axonal injury: a possible tool for estimating injury interval. *Bioscience Reports*, **2017**, 37,	4.1	8
32	Species identification of semen stains by ATR-FTIR spectroscopy. *International Journal of Legal Medicine*, **2021**, 135, 73-80	3.1	8
31	Identification of Skin Electrical Injury Using Infrared Imaging: A Possible Complementary Tool for Histological Examination. *PLoS ONE*, **2017**, 12, e0170844	3.7	7
30	Attenuated total reflectance Fourier transform infrared (ATR-FTIR) spectral prediction of postmortem interval from vitreous humor samples. *Analytical and Bioanalytical Chemistry*, **2018**, 410, 7611-7620	4.4	7
29	Estimation of postmortem interval using an electric impedance spectroscopy technique: a preliminary study. *Science and Justice - Journal of the Forensic Science Society*, **2011**, 51, 135-8	2	6
28	CYP gene family variants as potential protective factors in drug addiction in Han Chinese. *Journal of Gene Medicine*, **2016**, 18, 147-53	3.5	6
27	Determination of causes of death via spectrochemical analysis of forensic autopsies-based pulmonary edema fluid samples with deep learning algorithm. *Journal of Biophotonics*, **2020**, 13, e201960144	3.1	5
26	Identifying muscle hemorrhage in rat cadavers with advanced decomposition by FT-IR microspectroscopy combined with chemometrics. *Legal Medicine*, **2020**, 47, 101748	1.9	5
25	Preliminary study on fatal hyperthermia in rat liver tissue by Fourier transform infrared microspectroscopy. *Australian Journal of Forensic Sciences*, **2017**, 49, 468-478	1.1	4
24	Biochemical detection of fatal hypothermia and hyperthermia in affected rat hypothalamus tissues by Fourier transform infrared spectroscopy. *Bioscience Reports*, **2019**, 39,	4.1	4
23	Molecular characterization of gut microbial shift in SD rats after death for 30 days. *Archives of Microbiology*, **2020**, 202, 1763-1773	3	4
22	Dehydroandrographolide Inhibits Osteosarcoma Cell Growth and Metastasis by Targeting SATB2-mediated EMT. *Anti-Cancer Agents in Medicinal Chemistry*, **2019**, 19, 1728-1736	2.2	4

21	Postmortem diagnosis of fatal hypothermia/hyperthermia by spectrochemical analysis of plasma. *Forensic Science, Medicine, and Pathology*, **2019**, 15, 332-341	1.5	3
20	Characterization of the Postmortem Interval by Infrared Microscopy. *Analytical Letters*, **2016**, 49, 290-298	1.2	3
19	An investigation on annular cartilage samples for post-mortem interval estimation using Fourier transform infrared spectroscopy. *Forensic Science, Medicine, and Pathology*, **2019**, 15, 521-527	1.5	3
18	Postmortem Diagnosis of Fatal Hypothermia by Fourier Transform Infrared Spectroscopic Analysis of Edema Fluid in Formalin-Fixed, Paraffin-Embedded Lung Tissues. *Journal of Forensic Sciences*, **2020**, 65, 846-854	1.8	3
17	Exploring metabolic alterations associated with death from asphyxia and the differentiation of asphyxia from sudden cardiac death by GC-HRMS-based untargeted metabolomics. *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences*, **2021**, 1171, 122638	3.2	3
16	Adipose tissue estimates the postmortem interval based on ATR-FTIR spectroscopy. *Microchemical Journal*, **2021**, 164, 105977	4.8	3
15	Identification of antemortem and postmortem fractures in a complex environment by FTIR spectroscopy based on a rabbit tibial fracture self-control model. *International Journal of Legal Medicine*, **2021**, 135, 2385-2394	3.1	3
14	The Clinical and Medicolegal Analysis of Electrical Shocked Rats: Based on the Serological and Histological Methods. *BioMed Research International*, **2016**, 2016, 4896319	3	3
13	Oxygen- and bubble-generating polymersomes for tumor-targeted and enhanced photothermal-photodynamic combination therapy. *Biomaterials Science*, **2021**, 9, 5841-5853	7.4	3
12	Post-mortem evaluation of the pathological degree of myocardial infarction by Fourier transform infrared microspectroscopy. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2021**, 268, 120630	4.4	2
11	Post-mortem interval estimation in rat liver tissues using attenuated total reflection Fourier transform infrared spectroscopy combined with chemometrics. *Australian Journal of Forensic Sciences*, **2019**, 51, 527-537	1.1	2
10	The Use of Gas Chromatography Coupled with High-Resolution Mass Spectrometry-Based Untargeted Metabolomics to Discover Metabolic Changes and Help in the Determination of Complex Causes of Death: A Preliminary Study. *ACS Omega*, **2021**, 6, 2100-2109	3.9	2
9	Species identification of teeth of human and non-human.. *Forensic Science International*, **2022**, 333, 111205	2.5	1
8	Analysis of Postmortem Intestinal Microbiota Successional Patterns with Application in Postmortem Interval Estimation. *Microbial Ecology*, **2021**, 1	4.4	1
7	Potential use of molecular and structural characterization of the gut bacterial community for postmortem interval estimation in Sprague Dawley rats. *Scientific Reports*, **2021**, 11, 225	4.9	1
6	Application Value of CTA in the Computer-Aided Diagnosis of Subarachnoid Hemorrhage of Different Origins. *Journal of Healthcare Engineering*, **2021**, 2021, 6638610	3.7	1
5	Identifying traumatic brain injury (TBI) by ATR-FTIR spectroscopy in a mouse model.. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2022**, 274, 121099	4.4	1
4	Pathological and ATR-FTIR spectral changes of delayed splenic rupture and medical significance.. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2022**, 278, 121286	4.4	1

3	Identification of human and non-human bloodstains on rough carriers based on ATR-FTIR and chemometrics. *Microchemical Journal*, **2022**, 180, 107620	4.8	0
2	Multiple regression analysis of the craniofacial region of Chinese Han people using linear and angular measurements based on MRI. *Forensic Sciences Research*, **2017**, 2, 34-39	3.6	
1	Quantitative Characterization of Pulmonary Fat Emboli by Attenuated Total Reflectance Fourier Transform Infrared (ATR-FTIR) Spectroscopy and Partial Least-Squares (PLS) Regression: A Preliminary Study. *Analytical Letters*,1-11	2.2	