

# Zhenyuan Wang

## 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.

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	Species identification of teeth of human and non-human.. <i>Forensic Science International</i> , <b>2022</b> , 333, 111205	4.4	1
55	Identifying traumatic brain injury (TBI) by ATR-FTIR spectroscopy in a mouse model.. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2022</b> , 274, 121099	4.4	1
54	Pathological and ATR-FTIR spectral changes of delayed splenic rupture and medical significance.. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2022</b> , 278, 121286	4.4	1
53	Identification of human and non-human bloodstains on rough carriers based on ATR-FTIR and chemometrics. <i>Microchemical Journal</i> , <b>2022</b> , 180, 107620	4.8	0
52	Post-mortem evaluation of the pathological degree of myocardial infarction by Fourier transform infrared microspectroscopy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2021</b> , 268, 120630	4.4	2
51	Analysis of Postmortem Intestinal Microbiota Successional Patterns with Application in Postmortem Interval Estimation. <i>Microbial Ecology</i> , <b>2021</b> , 1	4.4	1
50	Exploring metabolic alterations associated with death from asphyxia and the differentiation of asphyxia from sudden cardiac death by GC-HRMS-based untargeted metabolomics. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , <b>2021</b> , 1171, 122638	3.2	3
49	Adipose tissue estimates the postmortem interval based on ATR-FTIR spectroscopy. <i>Microchemical Journal</i> , <b>2021</b> , 164, 105977	4.8	3
48	Identification of antemortem and postmortem fractures in a complex environment by FTIR spectroscopy based on a rabbit tibial fracture self-control model. <i>International Journal of Legal Medicine</i> , <b>2021</b> , 135, 2385-2394	3.1	3
47	Species identification of semen stains by ATR-FTIR spectroscopy. <i>International Journal of Legal Medicine</i> , <b>2021</b> , 135, 73-80	3.1	8
46	Potential use of molecular and structural characterization of the gut bacterial community for postmortem interval estimation in Sprague Dawley rats. <i>Scientific Reports</i> , <b>2021</b> , 11, 225	4.9	1
45	Oxygen- and bubble-generating polymersomes for tumor-targeted and enhanced photothermal-photodynamic combination therapy. <i>Biomaterials Science</i> , <b>2021</b> , 9, 5841-5853	7.4	3
44	Application Value of CTA in the Computer-Aided Diagnosis of Subarachnoid Hemorrhage of Different Origins. <i>Journal of Healthcare Engineering</i> , <b>2021</b> , 2021, 6638610	3.7	1
43	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. <i>ACS Omega</i> , <b>2021</b> , 6, 2100-2109	3.9	2
42	Identification of antemortem, perimortem and postmortem fractures by FTIR spectroscopy based on a rabbit tibial fracture model. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2020</b> , 239, 118535	4.4	11
41	Determination of causes of death via spectrochemical analysis of forensic autopsies-based pulmonary edema fluid samples with deep learning algorithm. <i>Journal of Biophotonics</i> , <b>2020</b> , 13, e201960144	3.1	5
40	Molecular characterization of gut microbial shift in SD rats after death for 30 days. <i>Archives of Microbiology</i> , <b>2020</b> , 202, 1763-1773	3	4

39	Predicting postmortem interval based on microbial community sequences and machine learning algorithms. <i>Environmental Microbiology</i> , <b>2020</b> , 22, 2273-2291	5.2	12
38	Postmortem Diagnosis of Fatal Hypothermia by Fourier Transform Infrared Spectroscopic Analysis of Edema Fluid in Formalin-Fixed, Paraffin-Embedded Lung Tissues. <i>Journal of Forensic Sciences</i> , <b>2020</b> , 65, 846-854	1.8	3
37	Identifying muscle hemorrhage in rat cadavers with advanced decomposition by FT-IR microspectroscopy combined with chemometrics. <i>Legal Medicine</i> , <b>2020</b> , 47, 101748	1.9	5
36	Evaluating the effects of causes of death on postmortem interval estimation by ATR-FTIR spectroscopy. <i>International Journal of Legal Medicine</i> , <b>2020</b> , 134, 565-574	3.1	10
35	Estimation of the age of human semen stains by attenuated total reflection Fourier transform infrared spectroscopy: a preliminary study. <i>Forensic Sciences Research</i> , <b>2020</b> , 5, 119-125	3.6	16
34	Digital whole-slide image analysis for automated diatom test in forensic cases of drowning using a convolutional neural network algorithm. <i>Forensic Science International</i> , <b>2019</b> , 302, 109922	2.6	19
33	Postmortem diagnosis of fatal hypothermia/hyperthermia by spectrochemical analysis of plasma. <i>Forensic Science, Medicine, and Pathology</i> , <b>2019</b> , 15, 332-341	1.5	3
32	Biochemical detection of fatal hypothermia and hyperthermia in affected rat hypothalamus tissues by Fourier transform infrared spectroscopy. <i>Bioscience Reports</i> , <b>2019</b> , 39,	4.1	4
31	An investigation on annular cartilage samples for post-mortem interval estimation using Fourier transform infrared spectroscopy. <i>Forensic Science, Medicine, and Pathology</i> , <b>2019</b> , 15, 521-527	1.5	3
30	Dehydroandrographolide Inhibits Osteosarcoma Cell Growth and Metastasis by Targeting SATB2-mediated EMT. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , <b>2019</b> , 19, 1728-1736	2.2	4
29	Human and non-human bone identification using FTIR spectroscopy. <i>International Journal of Legal Medicine</i> , <b>2019</b> , 133, 269-276	3.1	24
28	Post-mortem interval estimation in rat liver tissues using attenuated total reflection Fourier transform infrared spectroscopy combined with chemometrics. <i>Australian Journal of Forensic Sciences</i> , <b>2019</b> , 51, 527-537	1.1	2
27	Identification of Pulmonary Edema in Forensic Autopsy Cases of Sudden Cardiac Death Using Fourier Transform Infrared Microspectroscopy: A Pilot Study. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 2708-2715	7.8	16
26	Identification of pulmonary edema in forensic autopsy cases of fatal anaphylactic shock using Fourier transform infrared microspectroscopy. <i>International Journal of Legal Medicine</i> , <b>2018</b> , 132, 477-486	2.1	12
25	Species identification of bloodstains by ATR-FTIR spectroscopy: the effects of bloodstain age and the deposition environment. <i>International Journal of Legal Medicine</i> , <b>2018</b> , 132, 667-674	3.1	21
24	Attenuated total reflectance Fourier transform infrared (ATR-FTIR) spectral prediction of postmortem interval from vitreous humor samples. <i>Analytical and Bioanalytical Chemistry</i> , <b>2018</b> , 410, 7611-7620	4.4	7
23	Preliminary study on fatal hyperthermia in rat liver tissue by Fourier transform infrared microspectroscopy. <i>Australian Journal of Forensic Sciences</i> , <b>2017</b> , 49, 468-478	1.1	4
22	Application of MALDI-TOF MS for Estimating the Postmortem Interval in Rat Muscle Samples. <i>Journal of Forensic Sciences</i> , <b>2017</b> , 62, 1345-1350	1.8	12

21	Characterization of postmortem biochemical changes in rabbit plasma using ATR-FTIR combined with chemometrics: A preliminary study. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2017</b> , 173, 733-739	4.4	20
20	Changes in Attenuated Total Reflection Fourier Transform Infrared Spectra as Blood Dries Out. <i>Journal of Forensic Sciences</i> , <b>2017</b> , 62, 761-767	1.8	12
19	Application of FTIR spectroscopy for traumatic axonal injury: a possible tool for estimating injury interval. <i>Bioscience Reports</i> , <b>2017</b> , 37,	4.1	8
18	Estimation of the age of human bloodstains under the simulated indoor and outdoor crime scene conditions by ATR-FTIR spectroscopy. <i>Scientific Reports</i> , <b>2017</b> , 7, 13254	4.9	25
17	Multiple regression analysis of the craniofacial region of Chinese Han people using linear and angular measurements based on MRI. <i>Forensic Sciences Research</i> , <b>2017</b> , 2, 34-39	3.6	
16	Estimation of the late postmortem interval using FTIR spectroscopy and chemometrics in human skeletal remains. <i>Forensic Science International</i> , <b>2017</b> , 281, 113-120	2.6	26
15	MALDI-TOF MS as a Novel Tool for the Estimation of Postmortem Interval in Liver Tissue Samples. <i>Scientific Reports</i> , <b>2017</b> , 7, 4887	4.9	10
14	Application of Fourier transform infrared spectroscopy with chemometrics on postmortem interval estimation based on pericardial fluids. <i>Scientific Reports</i> , <b>2017</b> , 7, 18013	4.9	21
13	Identification of Skin Electrical Injury Using Infrared Imaging: A Possible Complementary Tool for Histological Examination. <i>PLoS ONE</i> , <b>2017</b> , 12, e0170844	3.7	7
12	UV-Vis and ATR-FTIR spectroscopic investigations of postmortem interval based on the changes in rabbit plasma. <i>PLoS ONE</i> , <b>2017</b> , 12, e0182161	3.7	15
11	The relationship between polymorphisms of BDNFOS and BDNF genes and heroin addiction in the Han Chinese population. <i>Journal of Gene Medicine</i> , <b>2016</b> , 18, 288-293	3.5	9
10	Curcumin alleviates brain edema by lowering AQP4 expression levels in a rat model of hypoxia-hypercapnia-induced brain damage. <i>Experimental and Therapeutic Medicine</i> , <b>2016</b> , 11, 709-716	2.1	23
9	Research progress in the estimation of the postmortem interval by Chinese forensic scholars. <i>Forensic Sciences Research</i> , <b>2016</b> , 1, 3-13	3.6	30
8	Characterization of the Postmortem Interval by Infrared Microscopy. <i>Analytical Letters</i> , <b>2016</b> , 49, 290-298.	2	3
7	The Clinical and Medicolegal Analysis of Electrical Shocked Rats: Based on the Serological and Histological Methods. <i>BioMed Research International</i> , <b>2016</b> , 2016, 4896319	3	3
6	CYP gene family variants as potential protective factors in drug addiction in Han Chinese. <i>Journal of Gene Medicine</i> , <b>2016</b> , 18, 147-53	3.5	6
5	Estimation of postmortem interval using an electric impedance spectroscopy technique: a preliminary study. <i>Science and Justice - Journal of the Forensic Science Society</i> , <b>2011</b> , 51, 135-8	2	6
4	Attenuated total reflection Fourier transform infrared spectroscopic investigation of the postmortem metabolic process in rat and human kidney cortex. <i>Applied Spectroscopy</i> , <b>2010</b> , 64, 268-74	3.1	16

3	Estimation of Postmortem Interval in Rat Liver and Spleen Using Fourier Transform Infrared Spectroscopy. <i>Spectroscopy Letters</i> , <b>2009</b> , 42, 108-116	1.1	16
2	Analysis of postmortem metabolic changes in rat kidney cortex using Fourier transform infrared spectroscopy. <i>Spectroscopy</i> , <b>2008</b> , 22, 21-31		20
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. <i>Analytical Letters</i> , 1-11	2.2	