

JOURNAL OF FORENSIC SCIENCES

2022 Noteworthy Articles

Anthropology

Use of strontium isotope ratios in geolocation of Guatemalan population: Potential role in identification of remains

Ryan Austin PhD, Gillian Fowler PhD, Jonathan J. Cooper PhD, Marco Perez Sanchez BA, Ruth Croxton PhD, Jane Evans PhD, David F. Thompson PhD

Criminalistics

Analysis of the genealogy process in forensic genetic genealogy

Mine Su Ertürk PhD, Colleen Fitzpatrick PhD, Margaret Press PhD, Lawrence M. Wein PhD

A fresh scientific look at transfer and persistence: From a materials science and tribology perspective

Michael G. Aberle BAppSc (Hons), Hilton Kobus PhD, James Robertson PhD, Caroline O'Driscoll PhD, Jurian A. Hoogewerff PhD

Comparison of portable and benchtop electrochemical instruments for detection of inorganic and organic gunshot residues in authentic shooter samples

Kourtney A. Dalzell BS, Colby E. Ott MS, Tatiana Trejos PhD, Luis E. Arroyo PhD

Digital & Multimedia Sciences

Crowdsourcing forensics: Creating a curated catalog of digital forensic artifacts

Eoghan Casey PhD, Lam Nguyen MIS, Jeffrey Mates MSSi, Scott Lalliss

Engineering & Applied Sciences

Using cadaver temperatures to estimate time of death: A case-specific numerical approach

John Abraham PhD, Lijing Cheng PhD, Lauren Vallez PhD, Tie Wei PhD

General

Sources of bias in death determination: A research note articulating the need to include systemic sources of biases along with cognitive ones as impacting mortality data

Melanie-Angela Neuilly PhD

Jurisprudence

Development of an instrument for assessing the quality of forensic evidence and expert testimony from three feature-comparison methods: DNA, voice, and fingerprint analysis

Alexa Villavicencio-Queijeiro PhD, Chantal Loyzance MS, Zoraida García-Castillo PhD, Jiro Suzuri-Hernández PhD, Alejandra Castillo-Alanís MS, Patricia López-Olvera PhD, Fernanda López-Escobedo PhD



Odontology

Third molar development in a London population of White British and Black British or other Black ethnicity

Sally E. Andrews PhD, Graham Roberts MDS, Pat Set FRCR, Fiona Warburton MSc, Fiona J. Gilbert FRCR

Pathology/Biology

Prone restraint cardiac arrest in in-custody and arrest-related deaths

Victor Weedn MD, JD, Alon Steinberg MD, Pete Speth MD

Psychiatry & Behavioral Science

Warning behaviors and leaked intent: Potential new avenues to prevent mass shootings

Corina Freitas MD, MSc, MBA, George David Annas MD, MPH

Questioned Documents

New method for the absolute dating of paper by radiocarbon measurements

Enrico Pigorsch PhD, Birgit Kiessler Dipl.-Ing, Matthias Hüls PhD

Toxicology

Forensic alcohol calculations in transgender individuals undergoing gender-affirming hormonal treatment

Peter D. Maskell PhD, Katherine J. C. Sang PhD, Steven B. Heymsfield MD, Sue Shapses PhD, Alanna Dekorompay MS