

Correction

Correction: Stelmaszczyk et al. Ultrafast Time-of-Flight Method of Gasoline Contamination Detection Down to ppm Levels by Means of Terahertz Time-Domain Spectroscopy. *Appl. Sci.* 2022, 12, 1629

Kamil Stelmaszczyk ^{1,*}, Ewelina Karpierz-Marczewska ¹, Valeri Mikhnev ¹, Grzegorz Cywinski ¹,
Thomas Skotnicki ^{1,2,3} and Wojciech Knap ^{1,4}

- ¹ CENTERA Laboratories, Institute of High Pressure Physics Polish Academy of Sciences, ul. Sokołowska 29/37, 01-142 Warsaw, Poland; ekarpierz@unipress.waw.pl (E.K.-M.); mvaleri@unipress.waw.pl (V.M.); gc@unipress.waw.pl (G.C.); t.skotnicki@cezamat.eu (T.S.); wojciech.knap@unipress.waw.pl (W.K.)
 - ² CEZAMAT Centre for Advanced Materials and Technologies, Warsaw University of Technology, ul. Poleczki 19, 02-822 Warsaw, Poland
 - ³ Institute of Microelectronics and Optoelectronics, Faculty of Electronics and Information Technology, Warsaw University of Technology, ul. Koszykowa 75, 00-662 Warsaw, Poland
 - ⁴ Laboratoire Charles Coulomb, UMR, CNRS 5221, 34095 Montpellier, France
- * Correspondence: kamil.stelmaszczyk@unipress.waw.pl; Tel.: +48-22-182-12-47



Citation: Stelmaszczyk, K.; Karpierz-Marczewska, E.; Mikhnev, V.; Cywinski, G.; Skotnicki, T.; Knap, W. Correction: Stelmaszczyk et al. Ultrafast Time-of-Flight Method of Gasoline Contamination Detection Down to ppm Levels by Means of Terahertz Time-Domain Spectroscopy. *Appl. Sci.* 2022, 12, 1629. *Appl. Sci.* 2022, 12, 5157. <https://doi.org/10.3390/app12105157>

Received: 28 April 2022

Accepted: 13 May 2022

Published: 20 May 2022

Publisher's Note: MDPI stays neutral with regard to jurisdictional claims in published maps and institutional affiliations.



Copyright: © 2022 by the authors. Licensee MDPI, Basel, Switzerland. This article is an open access article distributed under the terms and conditions of the Creative Commons Attribution (CC BY) license (<https://creativecommons.org/licenses/by/4.0/>).

Error in Figure

The authors wish to make the following corrections to their paper [1].

In the original publication, there was a mistake in Figures 1 and 6c as published. Figure 1 was erroneously printed as its mirror inversion. Furthermore, there was a mistake in the legend for Figure 1. The legend contained the text “490°” and “290°”, which would cause a misunderstanding of the right meaning “four 90°” and “two 90°”. Additionally, Figure 6c did not include the dashed rectangular box focusing the reader’s attention to the inset of the figure. The corrected Figures 1 and 6c appears below. The authors apologize for any inconvenience caused and state that the scientific conclusions are unaffected. The original publication has also been updated.

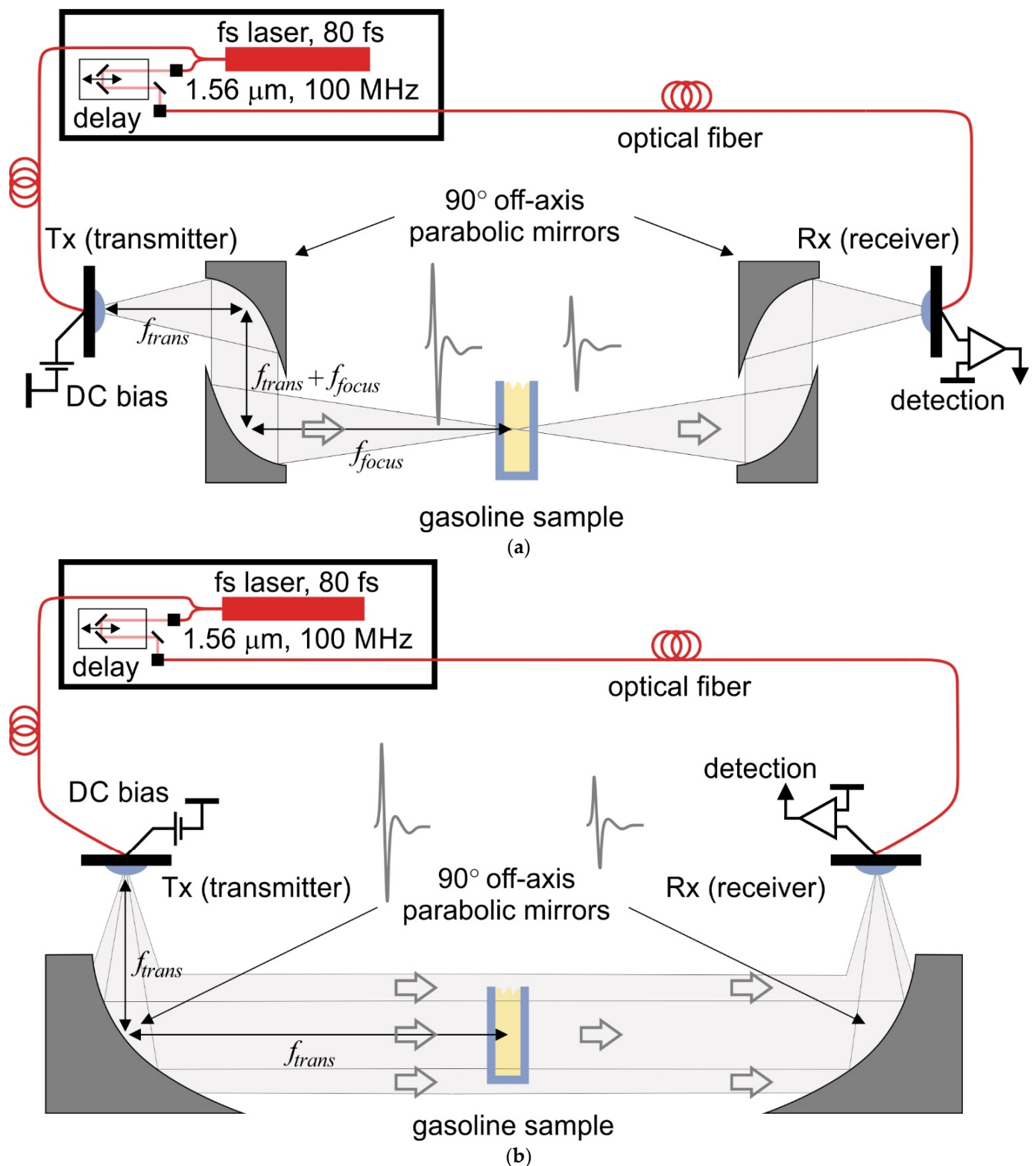


Figure 1. Schematic representation of the measurement setups: (a) $4f$ setup consisting of four 90° off-axis parabolic mirrors, which were used to measure THz pulse TOFs through the gasoline admixtures samples in quartz cuvettes of 1.00, 2.00, and 5.00 mm lengths in a focused beam configuration without a time-reference pulse; (b) $2f$ setup consisting of two 90° off-axis parabolic mirrors used for the measurements in a 10.00 mm-long TPX cuvette with a time-reference pulse. Note that the diameter of the THz beam is somewhat larger than the size of the cuvette and passes freely through the inert gas, serving as a reference for the measured TOF. The indicated focal lengths are not to scale.

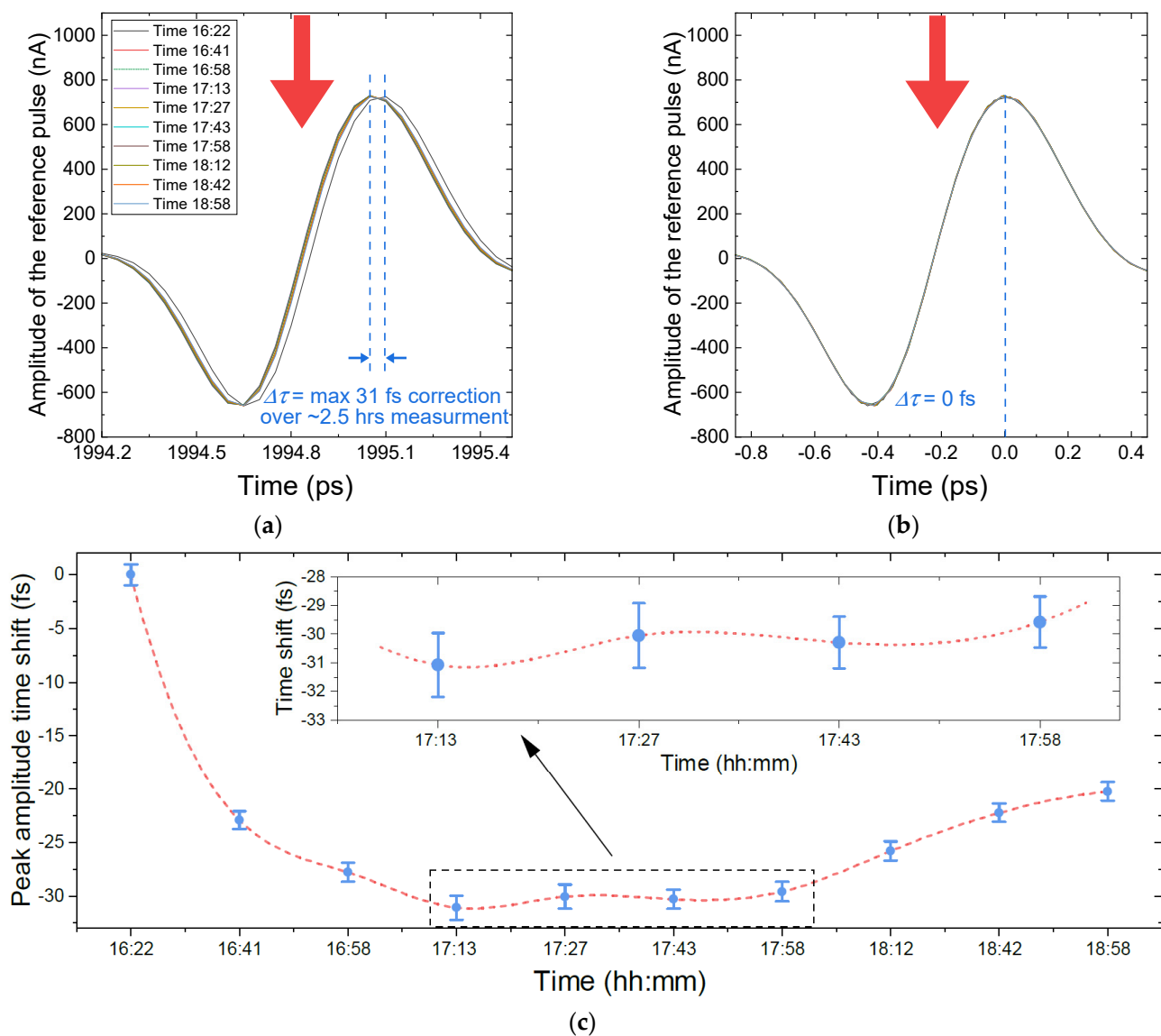


Figure 6. Time correction procedure of the THz pulse: (a) Actually measured waveforms of the reference pulse before correction; (b) The same waveforms brought to the common “zero delay” time after correction. The applied correction is also valid for the pulses propagating through gasoline samples during the measurements. The color code of the arrows above the pulses is used consistently with previous figures; (c) The measured evolution of the peak amplitude of the THz reference pulse during approx. 2.5 h-long series of the measurements. The positions of the peaks with fit errors were determined by numerical fit with a predefined function. The inset of the graph shows small-scale oscillations of the pulse position in detail.

Reference

1. Stelmaszczyk, K.; Karpierz-Marczewska, E.; Mikhnev, V.; Cywinski, G.; Skotnicki, T.; Knap, W. Ultrafast Time-of-Flight Method of Gasoline Contamination Detection Down to ppm Levels by Means of Terahertz Time-Domain Spectroscopy. *Appl. Sci.* **2022**, *12*, 1629. [[CrossRef](#)]