

## Accepted Peer-Reviewed Publications of Ioachim Pupeza (19. 2. 2026)

- [69] K. V. Kepesidis, P. Jacob, W. Schweinberger, M. Huber, N. Feiler, F. Fleischmann, M. Trubetskov, L. Voro-nina, J. Aschauer, T. Eissa, L. Gigou, P. Karandušovsky, **I. Pupeza**, A. Weigel, A. Azzeer, C. G. Stief, M. Chaloupka, N. Reinmuth, J. Behr, T. Kolben, N. Harbeck, M. Reiser, F. Krausz, and M. Žigman, "Electric-Field Molecular Fingerprinting to Probe Cancer," *ACS Central Science* 11, 560 (2025)
- [68] I.-C. Benea-Chelmus, J. Faist, A. Leitenstorfer, A. S. Moskalenko, **I. Pupeza**, D. V. Selenskiy, K. L. Vodopyanov, "Electro-optic sampling of classical and quantum light," *Optica* 12, 546 (2025)
- [67] C. Hofer, D. Bausch, L. Fürst, Z. Wei, M. Högner, T.P. Butler, M. Gebhardt, T. Heuermann, C. Gaida, K. Maiti, M. Huber, E. Fill, J. Limpert, F. Krausz, N. Karpowicz, **I. Pupeza**, "Linear field-resolved spectroscopy approaching ultimate detection sensitivity," *Optics Express* 33, 1 (2025)
- [66] S. A. Hussain, C. Hofer, M. Högner, W. Schweinberger, T. Buberl, D. Bausch, M. Huber, F. Krausz, **I. Pupeza**, "Sub-attosecond-precision optical-waveform stability measurements using electro-optic sampling," *Scientific Reports* 14, 20869 (2024)
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- [63] H. Kassab, S. Gröbmeyer, W. Schweinberger, C. Hofer, P. Steinleitner, M. Högner, T. Amotchkina, D. Gerz, M. Knorr, R. Huber, N. Karpowicz, **I. Pupeza**, "In-line synthesis of multi-octave phase-stable infrared light," *Optics Express* 31, 24862 (2023)
- [62] M. Peschel, M. Högner, T. Buberl, D. Keefer, R. de Vivie-Riedle, **I. Pupeza**, "Sub-Optical-Cycle Light-Matter Energy Transfer in Molecular Vibrational Spectroscopy," *Nature Communications* 13:5897 (2022)
- [61] P. Sulzer, M. Högner, A.-K. Raab, L. Fürst, E. Fill, D. Gerz, C. Hofer, L. Voronina, **I. Pupeza**, "Cavity-enhanced field-resolved spectroscopy," *Nature Photonics* 16, 692 (2022)
- [60] T. Vogel, A. Omar, S. Mansourzadeh Ashkani, F. Wulf, N. Sabanés, M. Müller, T. Seifert, A. Weigel, G. Jakob, M. Kläui, **I. Pupeza**, T. Kampfrath, C. Saraceno "Average power scaling of THz spintronic emitters in reflection geometry," *Optics Express*, 30, 20451 (2022)
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