Abdallah Mohammed Ali Azzeer, PhD, CPhys

EDUCATION:

Ph.D. University of Wales, Swansea, Wales, United Kingdom.
Major: **Physics**
Minor: **Laser Spectroscopy, Nonlinear Optics**

M.Sc. Colorado State University, Fort Collins, Colorado, United State of America.
Major: **Physics**
Minor: **Material Science**

B.Sc. (Distinguish) King Saud University, College Science**,** Riyadh, Kingdom of Saudi Arabia.

Major: **Physics, General Math**

RESEARCH INTERESTS & SPECIALIZATION:

Since the beginning of my career;

- Material Science (carbon fiber, Microwave)
- Nonlinear Optics Phenomena (SRS, SBS, LIG in Liquids, Crystals and Polymers).
- Design and construct different type of Lasers.
- Laser Induced Breakdown Spectroscopy (LIBS), Photoacoustic Spectroscopy (PAS) and Laser Induced Fluorescence (LIF).
- Applications of lasers in medicine, industry, holography and Ranging.

More recent;

- Ultrafast (femtosecond - attosecond) laser technology.
- Development of coherent short-wavelength sources.
- Attosecond metrology and spectroscopy.
- Early Cancer Detection With Lasers

EMPLOYMENT AND ADMINISTRATIVE:

- Associated Prof. of Physics, Physics Department, College of Science, KSU.
- On Secondment from KSU to Space Research Institute, KACST.
- Assistant Prof. of Physics, Physics Department, College of Science, KSU.
- Teaching Assistant of Physics (Scientific Demonstrator), Department of Physics, KSU.

ADMINISTRATIVE ASSIGNMENTS:

- Attosecond Science Laboratory Director, King Saud University, http://www.attoworld.sa/, [2014-present]
- Dean of King Abdullah institute for nanotechnology [2012 – 2014]
- Research group leader at the International Max Planck Research School on Advanced Photon Science (IMPRS-APS) http:/www2.mpq.mpg.de/APS/ [2011 – present].

- Supervisor of the research collaboration between KSU & MPQ [2008 – present].
- Dean of college of Science & Arts at Shaqra - Shaqra University [2008 – 2011].
- Supervisor of Girls College for Applied Medical Sciences- Shaqra University [2009 – 2011].
- Chairman of the Kingdom of Saudi Arabia delegation in the Gulf States scientific visit to People's Republic of China.
- Chairman of the Kingdom of Saudi Arabia delegation to the first international science activities conference of Asia, which held in Qatar.
- Laser Application Center manager, Space Research Institute, KACST.
- Chairman of Physics Department, College of Science, KSU .
- Acting Chairman of Astronomy Department, College of Science, KSU .
- Supervision of Scientific Hobbies and Invention of the deanship student affairs at KSU .
- Head of Social Society, College of Science, KSU
- Coordinator of Laser Research Group, Physics Department, KSU.

ACADEMIC ACTIVITIES:

- Founder of the Attosecond Science Laboratory (ASL) at KSU (2015)
- Supervision of 12 M.Sc. students thesis's, 3 PHD students & Co-supervisor for several M.Sc. theses'.
- External and internal examiner for several M.Sc. & PhD theses.
- Design and construction of "white light He-Cd Laser" at King Saud University
- Reviewer of several research projects & papers.

PUBLISHED RESEARCH PAPERS:

[1]. Weiwei Li, Ahmad Saleh, Manas Sharma, Christian Hünecke, Marek Sierka, Marcel Neuhaus, Lina Hedewig, Boris Bergues, Meshaal Alharbi, Hadi ALQahtani, Abdallah M. Azzeer, Stefanie Gräfe, Matthias F. Kling, Abdullah F. Alharbi, Zilong Wang, "Resonance Effect in Brunel Harmonic Generation in Thin Film Organic Semiconductors," Advanced Optical Materials 11, 2203070 (2023).

[2]. Ahmad Saleh, Weiwei Li, Hadi ALQahtani, Marcel Neuhaus, Ali Alshehri, Boris Bergues, Meshaal Alharbi, Matthias F. Kling, Abdallah M. Azzeer, Zilong Wang, Abdullah F. Alharbi, "Fifth-order Nonlinear Optical Response of Alq3 Thin Films," **Results in Physics** 37, 105513 (2022)

[3]. Johannes Schoetz, Ancyline Maliakkal, Johannes Blöchl, Dmitry Zimin, Zilong Wang, Philipp Rosenberger, Meshaal Alharbi, Abdallah Azzeer, Matthiew Weidman, Vladislav Yakovlev, Boris Bergues, and Matthias Kling, "The emergence of macroscopic currents in photoconductive sampling of optical fields," **Nature Communications** 13, 962 (2022)

[4]. Marcel Neuhaus, Johannes Schötz, Mario Aulich, Anchit Srivastava, Džiugas Kimbaras, Valerie Smejkal, Vladimir Pervak, Meshaal Alharbi, Abdallah M. Azzeer, Florian Libisch, Christoph Lemell, Joachim Burgdörfer, Zilong Wang, and Matthias F. Kling, "Transient field-resolved reflectometry at 50–100 THz," **Optica** 9, 42-49 (2022).

[5]. Kosmas V. Kepesidis, Masa Bozic, Marinus Huber, Nashwa Abdel-Aziz, Sharif Kullab, Ahmed Abdelwarith, Abdulrahman Al Diab, Mohammed Al Ghamdi, Muath Abu Hilal, M. R. Kailash Bahadoor, Abhishake Sharma, Farida Dabouz, Maria Arafah, Abdallah M. Azzeer, Ferenc Krausz, Khalid Alsaleh, Mihaela Zigman and Jean-Marc Nabholtz,

"Breast-cancer detection using blood-based infrared molecular fingerprints," **BMC Cancer** 21, 1287 (2021).

[6]. J. Schötz, B. Förg, W. Schweinberger, I. Liontos, M. A. Masood, A. M. Kamal, C. Jakubeit, N. G. Kling, T. Paasch-Colberg, S. Biswas, M. Högner, I. Pupeza, M. Alharbi, A. M. Azzeer, and M. F. Kling, "Phase-matching for generation of isolated attosecond XUV and soft-x-ray pulses with few-cycle drivers," **Phys. Rev. X**, 10{4}, 041011 (2020)

[7]. Shubhadeep Biswas, Benjamin Förg, Lisa Ortmann, Johannes Schötz, Wolfgang Schweinberger, Tomáš Zimmermann, Liangwen Pi, Denitsa Baykusheva, Hafiz A Masood, Ioannis Liontos, Amgad M Kamal, Nora G Kling, Abdullah F Alharbi, Meshaal Alharbi, Abdallah M Azzeer, Gregor Hartmann, Hans J Wörner, Alexandra S Landsman, Matthias F Kling, "Probing molecular environment through photoemission delays," **Nature Physics**, VOL 16, 778–783, (2020)

[8]. Ayman Alismail, Haochuan Wang, Gaia Barbiero, Najd Altwaijry, Syed Ali Hussain, Volodymyr Pervak, Wolfgang Schweinberger, Abdallah M. Azzeer, Ferenc Krausz, Hanieh Fattahi, "Multi-octave, CEP-stable source for high-energy field synthesis," **Science Advances**, Vol. 6, no. 7, eaax3408 (2020).

[9]. Ioachim Pupeza, Marinus Huber, Michael Trubetskov, Wolfgang Schweinberger, Syed A. Hussain, Christina Hofer, Kilian Fritsch, Markus Poetzlberger, Lenard Vamos, Ernst Fill, Tatiana Amotchkina, Kosmas V. Kepesidis, Alexander Apolonski, Nicholas Karpowicz, Vladimir Pervak, Oleg Pronin, Frank Fleischmann, Abdallah Azzeer, Mihaela Žigman & Ferenc Krausz "Field-resolved infrared spectroscopy of biological systems" **Nature**, Vol 577, PP 52–59 (2020).

[10]. F. M. Aldosari, A. M. Azzeer, & A. M. Hassib, "An Experimental Analysis to Assess Photo-Acoustic Techniques for Silver Nano-Particles; Considering Physical Properties," **Journal of Materials Science Research**; Vol. 8, No. 1; pp 17 (2019).

[11]. F. M. Aldosari, A. M. Azzeer & A. M. Hassib, "Analyzing the Preparation and Properties of Silver Nanoparticles; A Photo-Acoustic Study," **Applied Physics Research**; Vol. 10, No. 6; PP 29 (2018).

[12]. F. M. Aldosari, A. M. Azzeer & A. M. Hassib, "The Effects of Laser Energy, Repetition of Pulse Laser, Wavelength, and Temperature on Silver Nano-Particles," **Applied Physics Research**; Vol. 10, No. 6; pp 38 (2018).

[13]. F. M. Aldosari, A. M. Azzeer, & A. M. Hassib, "Optical and Photoacoustic Properties of Colloidal Silver Nanoparticles Solutions" **Journal of Materials Science Research**; Vol. 7, No. 4; pp1 (2018)

[14]. H. Li, Nora G. Kling, T. Gaumnitz, C. Burger, R. Siemering, J. Schötz, Q. Liu, L. Ban, Y. Pertot, J. Wu, A. M. Azzeer, R. De Vivie-Riedle, H. J. Wörner, and M. F. Kling, "Sub-cycle steering of the deprotonation of acetylene by intense few-cycle mid-infrared laser fields," **Optics Express, Vol. 25, No. 13**, 14192 (2017).

[15]. Hassan Ouacha, Ali Hendaoui, Ulf Kleineberg, Hamad Albrithen, Abdallah Azzeer," Controlled synthesis and photoluminescence properties of In_2O_3 rods with dodecahedron In_2O_3 microcrystals on top," **Physica Status Solidi (A), 214 (10),** 1700050 (2017).

[16]. Christian Burger, Nora G. Kling, Robert Siemering, Ali S. Alnaser, Boris Bergues, Abdallah M. Azzeer, Robert Moshammer, Regina de Vivie-Riedle, Matthias Kübel and Matthias F. Kling, "Visualization of bond rearrangements in acetylene using near single-cycle laser pulses," **Faraday Discussions**. **194**, 495 (2016)

[17]. Hanieh Fattahi, Haochuan Wang, Ayman Alismail, Gunnar Arisholm, Vladimir Pervak, Abdallah M. Azzeer, and Ferenc Krausz "Near-PHz-bandwidth, phase-stable continua generated from a Yb:YAG thin-disk amplifier," **Opics Express 24(21)**, 24337 (2016).

[18]. Alexander Guggenmos, Ayman Akil, Marcus Ossiander, Martin Schäffer, Abdallah Mohammed Azzeer, Gerhard Boehm, Markus-Christian Amann, Reinhard Kienberger, Martin Schultze, and Ulf Kleineberg, "Attosecond photoelectron streaking with enhanced energy resolution for small-bandgap materials." **Optics Letters, Vol. 41**, pp. 3714-3717, (2016).

[19]. B. Förg, J. Schötz, F. Süßmann, M. Förster, M. Krüger, B. Ahn, W. A. Okell, K. Wintersperger, S. Zherebtsov1, A. Guggenmos, V. Pervak, A. Kessel, S. A. Trushin, A. M. Azzeer, M. I. Stockman, D. Kim, F. Krausz, P. Hommelhoff, M.F. Kling, "Attosecond nanoscale near-field sampling," **Nature Communications 7**, 11717 (2016).

[20]. S. H. Chew, A. Gliserin, J. Schmidt, H. Bian, S. Nobis, F. Schertz, M. Kübel, Y. Yang, H. Ouacha, A. M. Azzeer and U. Kleineberg, "Laser intensity effects in carrier-envelope phase-tagged time of flight-photoemission electron microscopy" **Appl. Phys. B: Lasers and Optics, 122**:102 (2016).

[21]. Hanieh Fattahi, Ayman Alismail, Haochuan Wang, Jonathan Brons, Oleg Pronin, Theresa Buberl, Lénárd Vámos, Gunnar Arisholm, Abdallah M. Azzeer, and Ferenc Krausz, "High-power, 1-ps, all Yb:YAG thin-disk regenerative amplifier", **Opt. Lett. 41**, 1126-1129 (2016)

[22]. H. Carstens, N. Lilienfein, S. Holzberger, C. Jocher, T. Eidam, J. Limpert, A. Tünnermann, J. Weitenberg, D. C. Yost, A. Alghamdi, Z. Alahmed, A. Azzeer, A. Apolonski, E. Fill, F. Krausz, and I. Pupeza, "Megawatt-scale average-power ultrashort pulses in an enhancement cavity," **Opt. Lett**. **39**, 2595-2598 (2014).

[23]. Hanieh Fattahi, Helena G Barros, Martin Gorjan, Thomas Nubbemeyer, Bidoor Alsaif, Catherine Y Teisset, Marcel Schultze, Stephan Prinz, Matthias Haefner, Moritz Ueffing, Ayman Alismail, Lénárd Vámos, Alexander Schwarz, Oleg Pronin, Jonathan Brons, Xiao Tao Geng, Gunnar Arisholm, Marcelo Ciappina, Vladislav S Yakovlev, Dong-Eon Kim, Abdallah M Azzeer, Nicholas Karpowicz, Dirk Sutter, Zsuzsanna Major, Thomas Metzger, Ferenc Krausz, "Third-generation femtosecond technology," **Optica**, Vol. 1, No. 1 , 45-63 (2014)

[24]. Anees A. Ansari, A. K. Parchur, M. Alam, J. Labis, Abdallah Azzeer "Influence of Surface Coating on Structural and Photoluminescent Properties of $CaMoO_4$:Pr Nanoparticles," **Journal of Fluorescence** 24,1253-1262 (2014)

[25]. A. S. Alnaser, M. Kübel, R. Siemering, B. Bergues, Nora G. Kling, K.J. Betsch, Y. Deng, J. Schmidt, Z. A. Alahmed, A. M. Azzeer, J. Ullrich, I. Ben-Itzhak, R. Moshammer, U. Kleineberg, F. Krausz, R. de Vivie-Riedle and M. F. Kling, "Subfemtosecond steering of hydrocarbon deprotonation through superposition of vibrational modes," **Nature Communications** 5, 3800 (2014).

[26]. M. Kübel, A. Alnaser, B. Bergues, T. Pischke, J. Schmidt, Y. Deng, C. Jendrzejewski, J. Ullrich, G. G. Paulus, A. M. Azzeer, U. Kleineberg, R. Moshammer, and M. F. Kling, " Strong-field control of the dissociative ionization of N_2O with near-single-cycle pulses," **New Journal of Physics**, 16, pp. 65017-65031 (2014).

[27]. Anees A. Ansari , A.K. Parchur, Manawwer Alam, Abdallah Azzeer "Effect of surface coating on optical properties of Eu^{3+}-doped $CaMoO_4$ nanoparticles", **Spectrochimica Acta Part A**: Molecular and Biomolecular Spectroscopy 131, 30–36 (2014).

[28]. Anees A. Ansari, A.K. Parchur, M. Alam, Abdallah Azzeer "Structural and photoluminescence properties of Tb-doped CaMoO4 nanoparticles with sequential surface coatings," **Materials Chemistry and Physics** 147, 715–721 (2014).

[29]. H Li, A S Alnaser, X M Tong, K J Betsch, M Kübel, T Pischke, B Forg, J Schotz, F Sußmann, S Zherebtsov, B Bergues, A Kessel, S A Trushin, A M Azzeer and M F Kling, "Intensity dependence of the attosecond control of the dissociative ionization of D2" **J. Phys. B: At. Mol. Opt. Phys**. 47(12) 124020 (2014)

[30]. Khalid M. Abu-Salah, Mansour Alhoshan, Mohammed Zourob, Abdullah M. Azzeer "King Saud University: nanoscience and nanotechnology research highlights," **Green Processing & Synthesis**, Vol. 2 Issue: 2 p175-177 (2013).

[31]. Zherebtsov, F. Süßmann, P. Peltz, J. Plenge, K. Betsch, I. Znakovskaya, A. Alnaser, N. Johnson, M. Kübel, A. Horn, V. Mondes, G. Graf, S. A. Trushin, A. M. Azzeer, M. J. J. Vrakking, G. G. Paulus, F. Krausz, E. Rühl, Th. Fennel, and M. F. Kling "Carrier–envelope phase-tagged imaging of the controlled electron acceleration from SiO2 nanospheres in intense few-cycle laser fields," **New Journal of Physics** 14, 075010 (2012)

[32]. A. Wirth, M. Th. Hassan, I. Grguraš, J. Gagnon, A. Moulet, T. T. Luu, S. Pabst, R. Santra, Z. A. Alahmed, A. M. Azzeer, V. S. Yakovlev, V. Pervak, F. Krausz, E. Goulielmakis, "Synthesized Light Transients," **Science** , Vol. 334 no. 6053 pp. 195-200 (2011)

[33]. Ioachim Pupeza, Tino Eidam, Jan Kaster, Birgitta Bernhardt, Jens Rauschenberger, Akira Ozawa, Ernst E. Fill, Thomas Udem, Matthias F. Kling, Jens Limpert, Zeyad A. Alahmed, Abdallah M. Azzeer, Andreas Tünnermann, Theodor W. Hänsch and Ferenc Krausz, "Power scaling of femtosecond enhancement cavities and high-power applications", **Proc. SPIE** 7914, 79141I (2011); doi:10.1117/12.877532

[34]. F. Reiter, U. Graf, E. E. Serebryannikov, W. Schweinberger, M. Fiess, M. Schultze, A. M. Azzeer, R. Kienberger, F. Krausz, A. M. Zheltikov, and E. Goulielmakis, "Route to attosecond nonlinear spectroscopy "**Physical Review Letters**, Vol. 105, No. 24, 243902 -4 (2010).

[35]. Eleftherios Goulielmakis, Zhi-Heng Loh, Adrian Wirth, Robin Santra, Nina Rohringer, Vladislav S. Yakovlev, Sergey Zherebtsov, Thomas Pfeifer, Abdallah M. Azzeer, Matthias F. Kling, Stephen R. Leone & Ferenc Krausz, "Real-time observation of valence electron motion", **Nature,** 466, 739-743 (2010).

[36]. Florentin Reiter, Ulrich Graf, Martin Schultze, Wolfgang Schweinberger, Hartmut Schröder, Nicholas Karpowicz, Abdallah Mohammed Azzeer, Reinhard Kienberger, Ferenc Krausz, and Eleftherios Goulielmakis, "Generation of sub-3 fs pulses in the deep ultraviolet", **Opt. Lett.** Vol. 35, No. 13, pp. 2248-2250 (2010).

[37]. M. Schultze, M. Fieß, N. Karpowicz, J. Gagnon, M. Korbman, M. Hofstetter, A. Cavalieri, Y. Komninos, Th. Mercouris, C. A. Nicolaides, R. Pazourek, S. Nagele, J. Feist, J. Burgdörfer, A. M. Azzeer, R. Ernstorfer, R. Kienberger, U. Kleineberg, E. Goulielmakis, F. Krausz and V. S. Yakovlev, " Delay in Photoemission" , **Science** , Vol. 328. no. 5986, pp. 1658 - 1662 (2010).

[38]. M. Abdel-Aty, Abdallah Azzeer and M. Sebawe Abdalla, "Anabiosis of phase distribution of a three-level atom." **Physica A** 389, 3375-3381 (2010).

[39]. Ioachim Pupeza, Tino Eidam, Jens Rauschenberger, Birgitta Bernhardt, Akira Ozawa, Ernst Fill, Alexander Apolonski, Thomas Udem, Jens Limpert, Zeyad A.

Alahmed, Abdallah M. Azzeer, Andreas Tünnermann, Theodor W. Hänsch, and Ferenc Krausz, “Power scaling of a high-repetition-rate enhancement cavity”, **Opt. Lett**. Vol. 35, No. 12 (2010).

[40]. E. M. Bothschafter, A. Schiffrin, V.S. Yakovlev, A.M. Azzeer, F. Krausz, R. Ernstorfer and R. Kienberger, “Collinear generation of ultrashort UV and XUV pulses”, **Optics Express** 18, 9173-9180 (2010).

[41]. A. Hashem, A. M. Azzeer, and A. Ayoub, “The Removal of Hg (II) Ions from Laboratory Wastewater onto Phosphorylated Haloxylon ammodendron: Kinetic and Equilibrium Studies”, **Polymer-Plastics Technology and Engineering**, 49, 1463–1472, (2010).

[42]. A.S. Al-Dwayyan, A.M. Al-Dukhayel, A.M. Azzeer and A.M. Kamal "Polarization Instability of Vertical Cavity Surface Emitting Lasers", **J. King Saud Univ**.,(2009/1430H) **21**, Science (special issue), 93-101.

[43]. Mohammad O. Al-Jeffery, H. Kondou, Alexander Belenkevitch, Abdallah M. Azzeer, "Simple and direct method for detecting phosphorus in air at normal pressure and temperature using a combination of LIBS and LIFS techniques", **Proc. SPIE**, (2002)Vol. **4613**, Optical Biopsy IV, Robert R. Alfano; Ed. (SPIE Publications, USA), p. 269-277.

[44]. A. M. Azzeer “Simultaneous Monitoring of Stimulated Raman Scattering, Stimulated Brillouin Scattering and Photoacoustic Signals in Liquids”, **The Arabian J. for Sci. & Eng.**, (2001) Volume **26**, Number 2A, 147-154.

[45]. S. Al-dwayyan, M.S. Al-Salhi, A. M. Azzeer, M. A. Reda and M. A. Harith “The Low - Frequency Fluctuation in Semiconductor Lasers with External Cavity at Different Temperatures”, **J. King Saud Univ**.,(1420/2000) **12**, Science (1), 31-39.

[46]. A. M. Azzeer, A. S. Al-dwayyan, M.S. Al-Salhi, A. M. Kamal and M. A. Harith “ Optical Probing of Laser Induced Shock Waves in Air” **Applied Physics** (Springer-Verlag, Germany), (1996) **B63,** 307-310.

[47]. A. M. Azzeer, V. Masilamani, M.S. Salhi and A. Al-Dwayyan “Phase Conjugation by Stimulated Scattering from Organic Liquids" **The Arabian J. for Sci. & Eng.**, (1992) **17**, Number 2B, 245-252.

[48]. Athar S. Naqvi, K. Naveedullah, A. M. Azzeer and M.S. Al-Salhi "Hybrid transitions in sodium dimers by laser absorption spectroscopy" **Optics Communications 87**, 36-43(1992).

[49]. Abdallah M. Azzeer**,** Leo M. Silber, Ian L. Spain, and Carl E. Patton, "Applicability of the microwave cavity perturbation method for conductivity measurements on carbon fibers**" Journal of Applied Physics 57**(7), 2529-2531 (1985).

BOOKS;

[1]. Abdallah M. Azzeer & V. Masilamani "Laser the light extraordinary", Anuradha Agencies, Educational Publishers, Vidaylkaruppur, Kumbakonam R.M.S., India (1999).

[2]. Abdallah M. Azzeer & V. Masilamani "ABC of Laser", Anuradha Agencies, Educational Publishers, Vidaylkaruppur, Kumbakonam R.M.S., India (1999).

RECENT CONFERENCE, SYMPOSIA AND OTHER ACTIVITIES:

(I) *Conferences:*

- Marinus Huber, Liudmila Voronina, Wolfgang Schweinberger, Cristina Leonardo, Kosmas V Kepesidis, Christina Hofer, Syed A Hussain, Michael Trubetskov, Abdallah M Azzeer, Ioachim Pupeza, Ferenc Krausz, Mihaela Zigman," Field-resolved infrared spectroscopy of human blood to tackle lung, prostate and breast cancer detection." in 2019 Conference on Lasers and Electro-Optics Europe and European Quantum Electronics Conference, OSA Technical Digest (Optical Society of America, 2019), paper cl_1_3.

- Ioachim Pupeza, Marinus Huber, Michael Trubetskov, Wolfgang Schweinberger, Syed A Hussain, Christina Hofer, Kilian Fritsch, Lenard Vamos, Nicholas Karpowicz, Vladimir Pervak, Oleg Pronin, Abdallah Azzeer, Mihaela Zigman, Ferenc Krausz, " Field-resolved infrared spectroscopy of biological samples", Lasers and Electro-Optics Europe & European Quantum Electronics Conference (CLEO/Europe-EQEC) 2019 Conference on, pp. 1-1, 2019.

- Shubhadeep Biswas, B Förg, J Schötz, W Schweinberger, L Ortmann, T Zimmermann, L-W Pi, D Baykusheva, HA Masood, I Liontos, AM Kamal, NG Kling, AF Alharbi, M Alharbi, AM Azzeer, HJ Wörner, AS Landsman, MF Kling, "Probing Molecular Influence on Photoemission Delays," 2019 Conference on Lasers and Electro-Optics Europe & European Quantum Electronics Conference (CLEO/Europe-EQEC), Munich, Germany, 2019, pp. 1-1.

- Ayman Alismail, Haochuan Wang, Abdallah M Azzeer, Ferenc Krausz, Hanieh Fattahi, " Towards multi-mJ, OPCPA-based field synthesizer," Lasers and Electro-Optics Europe & European Quantum Electronics Conference (CLEO/Europe-EQEC), Munich, 2017, pp. 1-1.

- Sergey Zherebtsov, Qingcao Liu; Lennart Seiffert, Philipp Henning, Slawomir Skruszewicz, Philipp Rupp, Christian G. Schäfer, Alexander Kessel, Sergei Trushin, Eckart Rühl, Abdallah M. Azzeer, Josef Tiggesbäumker, Marcelo F. Ciappina, Markus Gallei, Thomas Fennel, Matthias F. Kling, " All-optical spatio-temporal control of electron emission from isolated dielectric nanospheres with two-color laser pulses," Lasers and Electro-Optics Europe & European Quantum Electronics Conference (CLEO/Europe-EQEC), Munich, 2017, pp. 1-1.

- Ioachim Pupeza, Marinus Hubert, Wolfgang Schweinberger, Michael Trubetskov, Syed A. Hussain, Lenard Vamos, Oleg Pronin, Florian Habel, Vladimir Pervak, Nicholas Karpowicz, Ernst Fill, Alexander Apolonski, Mihaela Zigman, Abdallah M. Azzeer, Ferenc Krausz, " Field-resolved spectroscopy in the molecular fingerprint region," 2017 Conference on Lasers and Electro-Optics Europe & European Quantum Electronics Conference (CLEO/Europe-EQEC), Munich, 2017, pp. 1-1.

- A. Guggenmos, A. Akil, M. Schäffer, M. Ossiander, A. Azzeer, M. Schultze, F. Krausz, and U. Kleineberg, "Attosecond Electron Streaking with Enhanced Energy Resolution," in Conference on Lasers and Electro-Optics, OSA Technical Digest (online) (Optical Society of America, 2016), paper FTu4N.4.

- Kelliie Pearce, Robin Dehde, Jürgen Schmidt, Christian Späth, Huaihai Pan, Sabbir Ahsan, Mahmoud Hezam, Hassan Ouacha, Abdallah M.A. Azzeer, U. Kleineberg "Transmission characterization and control of metallic nanohole arrays by sub 5 fsec laser light pulse" SPIE Optics & Photonics, Nanoscience & Engineering conference, August 21, 2014 , San Diego, USA.

- H. Carstens, N. Lilienfein, S. Holzberger, C. Jocher, T. Eidam, J. Limpert, A. Tünnermann, J. Weitenberg, A. Malgamdi, Z. Alahmed, A. Azzeer, A. Apolonski, E. Fill, I. Pupeza, and F. Krausz, "Thermal Limitations for Power Scaling of Femtosecond Enhancement

Cavities," in Research in Optical Sciences , OSA Technical Digest (online) (Optical Society of America, 2014), paper HTu1C.6.

- M. Hassan, A. Wirth, I. Grguras, T. T. Luu, A. Moulet, V. Yakovlev, J. Gagnon, O. Razskazovskaya, R. Santra, S. Pabst, A. M. Azzeer, Z. A. Alahmed, V. Pervak, F. Krausz, and E. Goulielmakis, "Attosecond physics with Synthesized Transients of Light," in *Laser Science*, OSA Technical Digest (online) (Optical Society of America, 2012), paper LW4H.2.

- Hassan, M.T.; Wirth, A.; Grguras, I.; Gagnon, J.; Moulet, A.; Luu, T. T.; Razskazovskaya, O.; Pabst, S.; Santra, R.; Alahmed, Z.; Azzeer, A.M.; Yakovlev, V.S.; Pervak, V.; Krausz, F.; Goulielmakis, E., "Synthesis of sub-optical-cycle transients of light," *Lasers and Electro-Optics (CLEO), 2012 Conference on* , vol., no., pp.1,2, 6-11 May 2012

- V.S. Yakovlev, M. Schultze, M. Fieß, N. Karpowicz, J. Gagnon, M. Korbman, M. Hofstetter, S. Neppl, A.L. Cavalieri, Y. Komninos, Th. Mercouris, C.A. Nicolaides, R. Pazourek, S. Nagele, J. Feist, J. Burgdörfer, A. M. Azzeer, R. Ernstorfer, R. Kienberger, U. Kleineberg, E. Goulielmakis, and F. Krausz, “Time-resolving photoionization with attosecond streaking spectroscopy” 20th International Laser Physics Workshop (LPHYS’11) July 11–15, 2011, Sarajevo, Bosnia and Herzegovina.

- A. Wirth, M.Th. Hassan, I. Grguras, J. Gagnon, A. Moulet, T.T. Luu, S. Pabst, R. Santra, Z. Alahmed, A.M. Azzeer, V.S. Yakovlev, V. Pervak, F. Krausz, and E. Goulielmakis, “Sub optical-cycle waveform light synthesis: steering and tracing ionization and electron dynamics in real-time” 20th International Laser Physics Workshop (LPHYS’11) July 11–15, 2011, Sarajevo, Bosnia and Herzegovina.

- Ioachim Pupeza, Tino Eidam, Jan Kaster, Birgitta Bernhardt, Jens Rauschenberger, Akira Ozawa, Ernst E. Fill, Thomas Udem, Matthias F. Kling, Jens Limpert, Zeyad A. Alahmed, Abdallah M. Azzeer, Andreas Tünnermann, Theodor W. Hänsch and Ferenc Krausz, "Power scaling of femtosecond enhancement cavities and high-power applications", Proc. SPIE 7914, 79141I (2011); doi:10.1117/12.877532

- Pupeza, T. Eidam, B. Bernhardt, A. Ozawa, J. Rauschenberger, E. Fill, A. Apolonski, Th. Udem, J. Limpert, Z. A. Alahmed, A. M. Azzeer, T. W. Hänsch, A. Tünnermann, F. Krausz, “Power Scaling of a 78 MHz-Repetition Rate Femtosecond Enhancement Cavity”, The Conference on Lasers and Electro-Optics and The Quantum Electronics and Laser Science Conference (CLEO/QELS), May 16–21, 2010, San Jose, California

- Wolfgang Schweinberger, Reinhard Kienberger, Georg Korn, Aleksandr A. Voronin, Abdallah M. Azzeer, Aleksei M. Zheltikov and Ferenc Krausz, “Multigigawatt sub-cycle optical field waveforms from shock-wave-enhanced supercontinuum generation in a molecular gas”, The Conference on Lasers and Electro-Optics and The Quantum Electronics and Laser Science Conference (CLEO/QELS), May 16–21, 2010, San Jose, California.

- Adrian Wirth, Eleftherios Goulielmakis, Zhi-Heng Loh, Robin Santra, Nina Rohringer, Vladislav S. Yakovlev, Sergey Zherebtsov, Thomas Pfeifer, Abdallah M. Azzeer, Matthias F. Kling, Stephen R. Leone, and Ferenc Krausz, “Attosecond Transient Absorption Spectroscopy”, German Physical Society (DPG) Conference, 8 – 12 March 2010, Hannover, Germany.

- A. Wirth, E. Goulielmakis, Z. Loh, R. Santra, N. Rohringer, V. S. Yakovlev, S. Zherebtsov, T. Pfeifer, A. M. Azzeer, M. F. Kling, S. R. Leone, and F. Krausz, "Attosecond Transient Absorption Spectroscopy for Real-Time Observation of Valence Electron Motion," in *International Conference on Ultrafast Phenomena*, OSA Technical Digest (CD) (Optical Society of America, 2010), paper WE1.

- The International conference for Nanotechnology, Riyadh, Saudi Arabia [5-7/4/2009].

- The European Conference on Lasers and Electro-Optics and the International Quantum Electronics Conference (CLEO®/Europe-IQEC), 17-22/6/2007, Munich, Germany.

- The 3rd Saudi conference for sciences, 10-13/3/2007, Riyadh, Saudi Arabia. Attend and present paper "Physical Properties of Laser Induced Gratings formed in Xanthene dye photopolymers", Abdallah M. Azzeer and Kawthar K. Alfares

Awards:

- **King Abdulaziz first class Medal.**
- Rector Award for Research Excellence for the year 2010 - Top 10 researchers according to the total calibration factor.
- Rector Award for Research Excellence for the year 2010 - Publishers in the journals of Nature and Science.

Membership of Scientific Associations:

- Institute of Physics (IOP). Elected as **CHARTERED PHYSICISTS** on 5/1994.
- Optical Society of America (OSA).
- The International Society of Optical Engineering (SPIE).
- Institute of Electrical and Electronic Engineering (IEEE).
- American Association of Physics Teachers (AAPT).

COMMITTEES:

- Member of several committees inside and outside the KSU.

COUNCILS:

- Member of King Saud University Council.[11/2012 – 21/8/2014]
- Member of Shaqra University Council, Shaqra University, Shaqra [2010 -2011].
- Member and chair of College of Science and Arts Council, Shaqra, Shaqra University [2008 – 2011].
- Member of Qweayah Community College Council, Shaqra University [2010 -2011].
- Member of King Saud University Council, KSU, Riyadh [2008 -2010].
- Member of the Board Club Council of faculty members at KSU.
- Member of College of Science Council, KSU, Riyadh.
- Member and chair of physics department Council, KSU.
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