

CURRICULUM VITAE

Assoc.Prof.Dr. Ramiz HAMID

Head of Time, Frequency and Wavelength Laboratory of
National Metrology Institute (TÜBİTAK - UME) of Turkey,
Chair of EURAMET Technical Committee for Time and Frequency
for the period from 06/2013 to 05/2015

(+90) 262 679 50 00 (Office)

(+90) 262 679 50 01 (Fax)

(+90) 536 335 99 74 (GSM)

ramiz.hamid@tubitak.gov.tr



1. **Family name:** HAMID
2. **First name:** Ramiz
3. **Date of birth:** 16.08.1962
4. **Citizenship:** Turkey, Azerbaijan
5. **Civil status:** Married
6. **Language:** English, Russian, Turkish, Azerbaijani

7. EDUCATION and DEGREES

BS and MS, Moscow State University, Physics Department

1979 - 1985

Topic of the master thesis: "Point contacts superconductor – superconductor Nb-Nb and superconductor – normal metal Nb-W in klystron and CO2 laser field.

Ph.D in Physics from Lebedev Physics Institute, Moscow

1987 - 1990

Topic of the thesis: "Investigation of nonlinear optical phenomena in resonance gas by using method of high resolution laser spectroscopy"

Advisers: Prof. V. V. Nikitin and Dr. V.A. Sautenkov

Specialty: Laser Physics, Radiophysics, Quantum Electronics

Assoc. Prof. Dr. in Physics from University Board of Turkey

2007

8. APPOINTMENTS

Senior Research Scientist,
Head of Time, Frequency and Wavelength Laboratory of
National Metrology Institute (UME) of Turkey

1993 – present

Senior Research Scientist,
Head of EMC Laboratory of UME, Turkey

1997 – 2011

Research Scientist at the Semiconductor Physics Laboratory of
Baku State University, Azerbaijan

1991 – 1992

Researcher and Ph.D student at the Frequency Standard Laboratory of
Lebedev Physics Institute, Moscow, USSR

1985 – 1991

9. KEY QUALIFICATIONS

- Project management and scientific co-ordination during development of Time and Frequency, Wavelength Standards and Electromagnetic Compatibility (EMC) laboratories of National Metrology Institute (UME) of Turkey.
- Experience about development of primary time-frequency system and laser standards.
- More than 20 year experience on time and frequency system and calibration, more than 10 year experience EMC testing and measurement of different equipment in accordance with EN, MIL-STD, IEC, SAE, CISPR and ETSI standards.
- Project management and preparation of the proposal for infrastructure of the metrology laboratories
- Training and consultancy of engineers for working with calibration, measurement and test systems Time and Frequency, Wavelength Standards and Electromagnetic Compatibility laboratories.
- Management of Quality Infrastructure of Time and Frequency, Wavelength Standards and Electromagnetic Compatibility (EMC) laboratories in accordance with EN ISO/IEC 17025 standard.
- Advisor of more than 10 MS and Ph. D students.
- Assessment of accreditation of several measurement and calibration laboratories.

10. EXPERIENCE

His research interests include laser and atomic physics, time and frequency standards, coherent population trapping and CPT atomic clock, fiber laser and low phase noise measurements, electromagnetic metrology, MW – atom – laser interaction and magnetic field sensor, high resolution laser spectroscopy and laser frequency stabilization, femtosecond comb and laser frequency measurements, displacement measurement with picometer and length measurement with nanometer uncertainty.

He has developed Time and Frequency, Wavelength Standards and Electromagnetic Compatibility (EMC) laboratories of National Metrology Institute (UME) of Turkey. In Time and Frequency Laboratory, time keeping and dissemination systems were developed using commercial available 5 Cs clocks and 2 GPS receivers. This laboratory is a member of BIPM-TAI club. UTC(UME) time scale is generated with an uncertainty better than 2×10^{-14} . Time dissemination is realized using developed Rb oscillator based NTP system with an uncertainty better than 5 ms for LAN and better than 50 ms for WAN. In this laboratory, the calibration systems (DC-40 GHz) for calibration of atomic clocks, frequency counters, signal generators, spectrum analyzers have been developed. Cable delay is measured with an uncertainty better than 10ps using fs Comb calibrated 50 GHz oscilloscope. Research activity for phase noise measurement based on RF signal from pulse Yb fiber laser is in progress.

In Wavelength Standards Laboratory, several lasers have been developed and stabilized on atomic and molecular transitions. The research activities for improvement of parameters of frequency stabilized He-Ne/I₂, He-Ne/CH₄, Nd-YAG/I₂, ECDL/Cs, Rb lasers are in progress. The frequencies of these lasers are stabilized to atomic and molecular transitions with an stability $1 \times 10^{-11} - 1 \times 10^{-14}$. Frequency of He-Ne/I₂, Nd-YAG/I₂ and ECDL/Cs,Rb lasers is measured by using Ti:Sa comb at UME and frequency of He-Ne/CH₄ at frequency chain of PTB. Recently in wavelength range 600 nm – 1600 nm femtosecond Yb fiber comb was developed. Investigation of fiber lasers as low noise RF oscillator is in progress. A high contrast CPT resonance in pump-probe beam configuration was detected. Frequency stabilized laser was used for displacement and length measurements. By using differential interferometer displacement measurement was measured with 5 pm uncertainty and applied to X-ray interferometer. Using 3 stabilized lasers and developed Koster interferometer 1 m length was measured with 200 nm uncertainty. Microwave and RF field strength was measured using MW-atom-laser interaction. Double radio-optical resonances of Cs atoms were investigated on far field and free space configuration.

Activities in EMC Laboratory include development of EMC test and measurement systems in a frequency range 9 kHz – 40 GHz for realization of the tests according to military standards (MIL-STD 461E), EN standards, automotive and ETSI standards. He has worked at the preparation of technical requirements for fully EMC anechoic chamber and shielded rooms, Open Area Test Site, EMC test and measurement systems. He has also joined to project management and preparation of the proposal for infrastructure of the metrology laboratories.

11. PROJECTS

Ramiz Hamid attended to following projects:

NAME of PROJECT	COMPANY	BUDGET	DATE	APPOINTMENT	TYPE of PROJECT
Development and Realization Time and Frequency Measurement and Calibration System for SASO, KINGDOM OF SAUDI ARABIA	SASO, Saudi Arabia		2012 - 2013	Coordinator	International
Compact and high-performing microwave clocks for industrial applications	EMRP	1 517 044 Euro	2013 - 2016	Researcher	International
Traceability of sub-nm length measurements	EMRP	2 407 741 Euro	2012 - 2015	Researcher	International
Development and Realization of Two-photon Transition Stabilized Laser System	Serbian Metrology Institute, Novolab		2011 - 2012	Researcher	International
Development and Realization Time Dissemination and Distribution System	Syria and Macedonia Metrology Institute		2010 - 2012	Coordinator	International
Development of Cs atomic clock stabilized Yb fiber optical frequency Comb	TÜBİTAK	359 800 TL	2010 - 2013	Coordinator	National
Development of Doppler Radar Calibrator			2009 - 2010	Researcher	National
EMF&SAR Traceable Measurement of Field Strength and SAR for the Physical Agents Directive	EMRP	2 862 126 Euro	2008 - 2011	Researcher	International
NANOTRACE-New Traceability Routes for Nanometrology	EMRP	1 389 300 Euro	2008 - 2011	Researcher	International
Development of Time Dissemination and Time Stamp System	TÜBİTAK , UEKAE – UME		2005- 2006	Coordinator	National
Test and Measurement System for Electromagnetic Compatibility	TÜBİTAK – UME	5 500 000 USD	1998 - 2004	Coordinator	National
Development of Wavelength Standards and its application for Length Measurements	TÜBİTAK – UME	1 500 000 USD	1998 - 2011	Coordinator	National
Development of Time and Frequency System and Realization of International Traceability	TÜBİTAK – UME	2 500 000 USD	1993 – 2011	Coordinator	National

12. MEMBERSHIP

EUROMET Technical Committee for Time and Frequency,
Chair of EURAMET Technical Committee for Time and Frequency for the period from 06/2013 to 05/2015
BIPM CCL/CCTF Joint Working Group
IEEE Laser Electro Optic Society
TURKAK Electromagnetic Compatibility (EMC) Sector Committee
TÜBİTAK TBAG Consultative Committee for Physics (2010 – 2011)

13. HONORS and AWARDS

- “Best Second Poster” on 13th National Optic, Electro-Optic and Photonic Conference, 2011
- “Best Paper” on IEEE EMC Conference, 2003
- Award of TÜBİTAK Marmara Research Center for Excellence in Research, 1996
- Honorable Ph.D. Studentship of USSR Academy of Science, 1989

14. JOINT WORK and COOPERATION

Country	Activity
Turkey	<p>Jan-1993 – today: He actively joint for investment analysis and development of National Metrology Institute (UME) of Turkey using World Bank finance support. He has project manager during development of time and frequency, length and electromagnetic compatibility (EMC) laboratories.</p> <p>In the period of 2000 – 2012, he provide several training course and consultancy to different companies of Turkey, related to time and frequency, lasers and length measurements and electromagnetic compatibility</p>
Western Europe – European Union countries	<p>1995 – 2012: Ramiz Hamid several times visited to different metrology and research center in different country in Europe for training, technical meeting and conference. He visited to PTB, NPL, BIPM, BEV for joint work and comparison of frequency stabilized lasers and displacement measurements system. He attends 3 EMRP project with European metrology institute.</p>
Latvia	<p>In 2003 he gives the training course on time and frequency measurement in Latvia based on Latvian National Quality Assurance Projects.</p>
Macedonia	<p>In 2007 and 2012 he gives the training course on time and frequency measurement for staff of Metrology Institute of Macedonia (BOM). He gives consultancy service for development of time and frequency laboratory of BOM. In 2012 he joins for development and installation of time dissemination system at BOM.</p>
Indonesia	<p>In 2008 he gives the training course on lasers and length measurements using lasers and interferometers for staff of Metrology Institute of Indonesia</p>
Serbia	<p>In 2010 he gives the training course on lasers and length measurements using lasers and interferometers for staff of Metrology Institute of Serbia. In 2012 he join for development and installation of Rb two-photon stabilized laser system in Metrology Institute of Serbia.</p>
Kyrgyzstan	<p>In 2012 he gives the Training Course on Time and frequency Measurement for staff of Center for Standardization and Metrology (CSM) of Kyrgyzstan</p>
Syria	<p>In 2010 – 2011 he gives the training course on time and frequency measurement for staff of Metrology Institute of Syria. In 2011 he joins for development and installation of time dissemination system at Metrology Institute of Syria.</p>
Saudi Arabia	<p>In 2010 – 2013 he gives the Training Course on Time and frequency Measurement for staff of Metrology Institute of Saudi Arabia.</p>

15. CONFERENCE, MEETING and SEMINARS

Ramiz Hamid was attend for organization to following conference and technical meetings:

- EURAMET Technical Committee Meetings for Time and Frequency, 2011.
- National EMC Conference, 2011.
- EMRP “EMF&SAR Traceable Measurement of Field Strength and SAR for the Physical Agents Directive” Project Meeting, 2008.
- EMRP “NANOTRACE-New Traceability Routes for Nanometrology” Project Meeting, 2008.
- UME Scientific Seminars, 2001 – 2002.

Ramiz Hamid was attend to following conference and technical meetings:

- EURAMET Technical Committee Meetings for Time and Frequency, 1995 -2012.
- BIPM Joint Working Group of Consultative Committee for Length, Time and Frequency (CCL/CCTF JWG) Meetings, 1995 – 2012.
- EMRP “EMF&SAR Traceable Measurement of Field Strength and SAR for the Physical Agents Directive” Meetings, 2008 – 2011.
- EMRP “NANOTRACE-New Traceability Routes for Nanometrology” Meetings, 2008 – 2011.
- Spectral Sampling Tools For Vegetation Biophysical Parameters and Flux Measurements in Europe, 2010 – 2011.
- European Frequency and Time forum, Sweden, 2012.
- 9th Seminar on Quantitative Microscopy (QM) and 5th Seminar on Nanoscale Calibration Standards and Methods, Nanoscale 2010, Czech Republic, 2010.
- International Zurich Symposium on Electromagnetic Compatibility, Switzerland, 2009.
- European Frequency and Time forum, Germany, 2006.
- IEEE International Symposium on EMC, Turkey, 2003.
- Symposium on Frequency Standards and Metrology, USA, 2001.
- Joint Meeting of The European Frequency and Time forum and The IEEE International Frequency Control Symposium, France, 1999.
- Conference on Precision Electromagnetic Measurements, USA, 1998.
- International Conference on Vibration Measurements by Laser Techniques: Advances and Applications, Italy, 1998.
- Conference on Precision Electromagnetic Measurements, Germany, 1998.
- Conference on Precision Electromagnetic Measurements, Germany, 1996.
- Symposium on Frequency Standards and Metrology, USA, 1996.
- IEEE International Frequency Control Symposium, USA, 1995.
- British Electromagnetic Measurements Conference (BEMC-95), UK, 1995.
- Conference on Precision Electromagnetic Measurements, USA, 1994.
- Satellite Conference of the XXX Annual meeting of the European High Pressure Research Group, USSR, 1992.
- Coordinated meeting of socialist countries on physical problems of optoelectronics, USSR, 1989.
- All-union seminar on optical orientation of atoms and molecules, USSR, 1989.

16. TRAINING

Ramiz Hamid was attend to following training course:

- Radio and Telecommunications Terminal Equipment Directive 1999/5/EC training course, TRL Compliance, 2006.
 - The Complete EMC Engineer, Schaffner-Chase EMC Ltd, UK, 2003.
 - Introductory Course in EMC Test and Measurement Technology, Schaffner-Chase EMC Ltd, UK, 1999.
 - Time and Frequency Training, PTB, Germany, 1998.
 - Client Team Training Program, Arthur Andersen, Turkey, 1998.
 - Technical Construction File Training Course, Radio Frequency Investigation Ltd., UK, 1997.
 - EMC in Production Training Course, Radio Frequency Investigation Ltd., UK, 1997.
-

17. PUBLICATIONS

17.1. Publications List of Ramiz Hamid (previous family name: Gamidov) in Referred Journals

1. S.I. Vedeneev, V.A. Stepanov, R.G. Gamidov,
Superconductor-normal metal point contact in the field of CO₂ laser,
Sov. Phys. Solid State, Vol.28, N4, pp. 697-698, 1986.
Fiz. Tverd. Tela, Vol.28, N.4, pp.1237-1240, 1986.
 2. A.M. Akulshin, V.L.Velichanskii, R.G.Gamidov, V.I. Malakhova, .V. Nikitin, V.A. Sautenkov, M. Sh. Kobyakova, G.T.Pak
Formation of a narrow velocity distribution in an atomic cesium beam by resonant injection laser radiation,
Sov. J.Quantum Electron. Vol.19, N7, pp.972-974, 1989.
Kvantovaya Elektron. Vol.16, N7, pp. 1507-1510, 1989.
 3. A.M.Akulshin, T.A.Vartanyan, V.L.Velichanskii, R.G. Gamidov, V.A. Sautenkov, and S.I. Filimonov,
Self-diffraction of resonance radiation on selective gas mirror
Optics and Spectroscopy, Vol.66, N4. pp.423-424, 1989
Opt. Spektrosk., Vol.66, N4, pp. 723-725, 1989.
 4. A.M.Akulshin, T.A.Vartanyan, V.L.Velichanskii, R.G. Gamidov, V.A. Sautenkov,
Nonlinear effects in selective reflection from a rarefied resonant gas,
Bulletin Academy Science USSR, Physic Ser.; Izv. Akad. Nauk, Fiz,
Vol.53, N.6, pp.1122-1124, 1989, Allerton Press. Inc. (pp.94-96), 1989.
 5. A.M. Akulshin, V.L. Velichanskii, R.G. Gamidov, A.P.Kazantsev, V.A. Sautenkov, G.I.Surdutovich, and V.P. Yakovlev
Effect of radiation pressure on shape of saturated absorption resonance of cesium vapor,
JETP Lett. Vol.50, N4, pp. 187-190, 1989.
 6. V.L. Velichanskii, R.G. Gamidov, G.T. Pack, V.A. Sautenkov,
Nonlinear selective reflection bichromatik radiation from the interface of transparent dielectric - resonance gas.
JETP Lett, Vol.52, pp.136-140, 1990.
 7. A.M.Akulshin, V.L.Velichanskii, R.G. Gamidov, A.Ch. Izmailov, V.V.Popovichev and V.A. Sautenkov
Resonant compensation of velocity-selective optical pumping of atoms in Doppler-free saturated absorption spectra,
JETP, Vol.72, N. 1, pp.58-62, 1991.
 8. R.G. Gamidov, A.Ch. Izamailov, H.Uğur,
On the structure of sub-Doppler absorption resonances on an atomic transition from a ground degenerate level,
Optics and Spectroscopy, Vol.77, N. 1, pp.6-10, 1994,
Opt. Spektrosk., Vol.77, N. 1, pp.11-16, 1994.
 9. R.G. Gamidov, İ.Taşkın, M.Çetintaş, V.Sautenkov
Unmodulated external-cavity diode laser stabilized on cesium D2 line,
IEE Proc. Science, Measurement and Technology, Vol. 143, N.4, pp.263-264, 1996.
 10. V.A. Sautenkov, R.G. Gamidov, A.Weis,
Observation of narrow resonances inside homogeneously self-broadened lines in pump-probe reflection experiments,
Physical Review A, Vol. 55, N.4, pp. 3137-3142, 1997.
-

-
11. R.G. Gamidov, A.Ch. Izmailov, and M. Çetintaş,
On the influence of laser beams diameters on Sub-Doppler resonances of the saturated absorption,
Laser Physics, Vol.9, No.3, pp.672 - 679, 1999.
 12. Ramiz Hamid (Gamidov), Mustafa Cetintas, Mehmet Celik
Polarization resonance on S-D two photon transition of Rb atoms,
Optics Communications, Vol.224, pp. 247-253, 2003.
 13. R. Hamid, C. Erdogan, E. Sahin, G. Kramer, B. Lipphardt, D.A. Tyurikov
Comparative Characterization of the Different Methane Stabilized Optical Frequency Standards and
Absolute Frequency Measurements,
Laser Physics, Vol.14, No:7, pp. 953-959, 2004.
 14. R.Hamid, M. Cetintaş, M. Celik,
Observation of Faraday resonances on the S-D two-photon transition of Rb atoms,
Physical Review A, Vol. 70, pp.025805-1-025805-4, 2004.
 15. R. Hamid, D. Şendoğdu, C. Erdogan,
Temperature Stabilization and Temperature Measurement of Köster Interferometer,
Measurement Science and Technology, Vol. 16, pp. 2201-2207, 2005.
 16. R. Hamid, E. Şahin, M. Celik, G. Özen, M. Zucco, L. Robertsson, L.S. Ma,
 10^{-12} level reproducibility of an iodine stabilized He-Ne laser endorsed by absolute frequency
measurements in the BIPM and UME,
Metrologia, Vol. 43, pp.106-108, 2006.
 17. R. Hamid, M. Celik, E.Sahin, A.Izmailov,
Sub-Doppler absorption resonances of the ring shaped laser beams in the thin vapor cell
Laser Physics, Vol.16, No:10, pp.1-4, 2006.
 18. L. Robertsson, R. Felder, F. Bertinetto, P. Cordiale, J.P. Wallerand, H. Suh, H. Hussein,
R. Hamid, E. Sahin
BIPM, INRIM, LNE-INM/CNAM, KRISS, NIM, UME Results from the CII-2006 campaign at the
BIPM of the BIPM.L-K11 ongoing key comparison
Metrologia, Vol. 44, Tech. Suppl., 04003, 2007.
 19. L. Robertsson, M. Zucco, R. Felder, L.-S. Ma, J. Quin, X. Liu, Z. Liu, H. Inaba, J. Ishikawa,
R. Hamid
BIPM, NIM, AIST/NMIJ, UME Results from additional measurements carried out within the
BIPM.L-K11 ongoing key comparison
Metrologia, Vol. 44, Tech. Suppl., 04004, 2007.
 20. Matus M., Nyholm K., Madej A.A., Bernard J.E., Walczuk J., Crepinsek Lipus L., Castillo H.A.,
Pichardo Vega R., Bastida K.B., Griselda Mingolla M., Malinovski I., Tarelho L., França R.,
Hamid R., Sahin E., Katic M., Simunovic V., Robertsson L.
Final report for the period 2007-2009 on the CCL-K11 ongoing key comparison,
Metrologia, Vol. 47, Tech. Suppl., 04009, 2010.
 21. M.Cetintas, R.Hamid, O.Sen, S.Cakır
Characterization of a Far-Field Microwave Magnetic Field Strength Sensor Based on Double Radio-
optical Resonance
IEEE Transactions on Electromagnetic Compatibility, Vol.52, No:1, pp.21-31, 2010.
 22. S.Çakır, R.Hamid, L.Sevgi
Loop-Antenna Calibration
IEEE Antennas and Propagation Magazine, Vol. 53, No. 5, pp.243-254, 2011.
-

-
23. M. Çetintaş, S. Çakır, R. Hamid, O. Şen,
Towards absolute measurements of far-field microwave magnetic field by atomic sensor based on Double Radiooptical Resonance,
IEEE Transactions on Electromagnetic Compatibility, Vol.54, No.1, pp.225-227, 2012.
 24. S.Çakır, R.Hamid, M.Çetintaş, G.Çakır, O.Şen
Sensing of RF magnetic field using zeeman splitting of double radiooptical resonance and a new approach to helmholtz coil calibration,
IEEE Sensors Journal, Vol.12, No.7, pp.2465-2473, 2012.
 25. E.Şahin, R.Hamid, C. Birlikseven, G. Özen, A.Ch.Izmailov
High contrast resonances of the coherent population trapping on sublevels of the ground atomic term,
Laser Physics, Vol.22, No.6, pp.1038-1042, 2012.
 26. M.Pisani, A.Yacoot, P. Balling, N. Bancone, C. Birlikseven, M. Çelik, J. Flügge, P. Kochert, U. Kuetsgens, G.B.Picotto, M. Tedaldi, P. Kren, A. Lassila, R. Hamid, E. Şahin, J. Seppä, C. Wiechert,
Comparison of the performance of the next generation of optical interferometers,
Metrologia, Vol. 49, pp.455-467, 2012.
 27. M.Çelik, R.Hamid, U. Kuetsgens, A.Yacoot,
Picometre displacement measurements using a differential Fabry-Perot optical interferometer and x-ray interferometer,
Measurement Science and Technology, Vol. 23, pp. 085901 (6pp), 2012.
 28. Z. Zhang, Ç. Şenel, R. Hamid, F.Ö. Ilday
Sub-50 fs all-fiber Yb-doped laser with anomalous-dispersion photonic crystal fiber,
Optics Letters, Vol. 38, No.6, pp.956-958, 2013.
 29. E.Şahin, G. Özen, R.Hamid, M.Çelik, A.Ch.Izmailov
Coherent Population Trapping resonances on lower atomic levels of Doppler broadened optical lines,
To be published in Quantum Electronics, 2013

PATENT

1. V.L. Velichanskii, R.G. Gamidov, V.V.Nikitin, V.A. Sautenkov
Atomic beam tube for optical pumped cesium frequency standard,
USSR Patent, N.1616466, 1990.

17.2. Conference Proceedings and Preprints

1. V.L. Velichanskii, R. G. Gamidov, V.V. Nikitin, V.A. Sautenkov, V.I. Malakhova, I.A. Rachkov, S.I.Filimonov,
Stationary deformation of velocity distribution of atomic cesium beam by resonance injection laser radiation (In Russian)
Preprint 331, Lebedev Physics Institute, Academy of Sciences of the USSR, Moscow, 1987.
 2. A.M. Akulshin, V.L.Velichanskii, R.G.Gamidov, A.C. Zibrov, B.I.Rodriges, V.A. Sautenkov,
Diode laser application for optical orientation and cooling of Cs, Rb atoms,
Proceeding of II All-union seminar on optical orientation of atoms and molecules, pp. 18-19, Leningrad, USSR 1989.
 3. A.M.Akulshin, V.L.Velichanskii, R.G. Gamidov, A.Ch. Izmailov, V.V.Popovichev and V.A. Sautenkov
Resonant compensation of the atomic velocity-selective optical pumping in the Doppler-free
-

saturated absorption spectra

Preprint 188, Lebedev Physics Institute, Academy of Sciences of the USSR, Moscow, 1990.

4. V.L. Velichanskii, R.G. Gamidov, V.A. Sautenkov,
Bistable effect in external cavity diode lasers,
Proceeding of Coordinated meeting of socialist countries on physical problems of optoelectronics,
Baku, USSR, 1989.
 5. A.M.Akulshin,, R.G. Gamidov, V.A. Sautenkov, T.A.Vartanyan, V.L.Velichanskii,
V.V.Popovichev,
Nonlinear selective reflection from glass - vapour interface at near normal incidence,
Preprint 132, Lebedev Physics Institute, Academy of Sciences of the USSR, Moscow, 1990.
 6. R.G. Gamidov, E.A. Sadykhov, Liy Lijun, M.A. Ibragim
Four-wave mixing in Bi12SiO20 photorefractive crystal with holographing grating.
Physics of multi component semiconductors, Booklet of the abstracts Satellite
Conference of the XXX Annual meeting of the European High Pressure Research
Group, Azerbaijan Republic, Baku, October 12-14, 1992.
 7. R.G. Gamidov, R.K. Badalov, A.M.Mamedova,
Optical characteristics of some biological objects interacting with laser beams at
wavelengths of 780 nm and 830 nm,
Azerbaijan Medical Journal, 1993.
 8. R.G. Gamidov, İ.Taşkın, M.Çetintaş,
Time and frequency standard system and time dissemination at (UME) National
Metrology Institute of Turkey,
7th British Electromagnetic Measurements Conference (BEMC-95) Digest, pp.20.1-4,
Malvern, UK, 1995.
 9. V.Sautenkov, R.G. Gamidov, İ.Taşkın,
Optical pumping and light pressure induced deformation of Doppler-free resonance on
cesium cycling transition,
Proceedings of the 12th Conference on Laser Spectroscopy, Island of Capri, Italy, 1995.
 10. R.G. Gamidov, İ. Taşkın, V. Sautenkov,
Influence of saturation beam parameters on laser frequency locked to the cesium
cycling transition,
Proceedings of the IEEE International Frequency Control Symposium, San Francisco,
USA, pp. 149-151, 1995.
 11. R.G. Gamidov, İ.Taşkın, V.Sautenkov,
Shift of diode laser frequency which locked to cesium D2 line by the FM or ZM
stabilization technique,
Proceedings of the Fifth Symposium on Frequency Standards and Metrology, Woods
Hole, Massachusetts, 1995, USA,
Published by World Scientific Publishing Co Pte Ltd, Editor James C. Bergquist,
pp.445-449, 1996.
 12. R.G. Gamidov, M.Çetintaş, E. Sadıkhov, V.Sautenkov,
Diode lasers with external optical feedback for small displacement measurements,
Conference digest of Conference on Precision Electromagnetic Measurements
(CPEM-96), pp.126-127, Braunschweig, Germany, 1996.
 13. R.Gamidov, E. Sadikov, M. Çetintaş,
Optical feedback in diode laser for sound pressure measurement
Proceedings of SPIE Vol. 3411, pp 624-629, 1998.
-

-
14. R. Gamidov, M. Çetintaş, A.Ch.Izmailov,
High Contrast Doppler-Free Resonance on cycling transition $F=3-F=2$ D2 line of Cesium Atoms,
Proceedings of the 1999 Joint Meeting of The European Frequency and Time forum and The IEEE
International Frequency Control Symposium, Vol.1, pp.114-117, 1999.
 15. R. Gamidov, M. Çetintaş,
Time Comparison of atomic clocks using counter and GPS system
Proceedings of the 1999 Joint Meeting of The European Frequency and Time forum and The IEEE
International Frequency Control Symposium, Vol.1, pp. 228-270, 1999.
 16. R. Gamidov, M. Çetintaş, H. Karacadağ, A. Gedik, M. Yoğun, M Çelik,
Measurement of electromagnetic radiation from GSM base station in Turkey
Conference digest of Asia – Pasific Radio Science Conference, Japan, 2001.
 17. M. Gubin, C. Erdoğan, R. Gamidov, P. Gill et all,
The Absolute Frequency Measurements with a Set of Transportable He-Ne/CH4 OFS and Prospects
for Future Design and Applications,
Proceedings 6th Symposium on Frequency Standards and Metrology, pp. 453-460, Editor P.Gill,
World Scientific, 2001.
 18. R. Gamidov, M. Çetintaş
Frequency Shift of Diode Lasers Stabilized on S-D Two Photon Polarization Resonance on Rb Atoms,
Proceedings of the IEEE International Frequency Control Symposium, Louisiana, USA, 2002.
 19. R. Hamid, M. Cetintaş, H. Karacadağ, A. Gedik, M. Yoğun, M. Çelik, A. Fırlarer,
Measurement of Electromagnetic Radiation from GSM Base Stations
Proceeding of IEEE International Symposium on EMC, Turkey, 2003.
 20. R. Hamid, M. Cetintaş, H. Karacadağ,
EMC Test Facilities at UME
Proceeding of IEEE International Symposium on EMC, Turkey, 2003.
 21. R. Hamid, E. Sahin, M. Celik M.Zucco, L. Robertsson and L.S.Ma,
Absolute Frequency Measurement and Comparison of UME and BIPM He-Ne/I2 Lasers
Conference digest of Conference on Precision Electromagnetic Measurements(CPEM), UK, 2004.
 22. R. Hamid, D. Sendogdu, C. Erdogan
The Kösters Interferometer For Long Gauge Block Length Measurements
Conference digest of Conference on Precision Electromagnetic Measurements (CPEM), Italy, 2006.
 23. Matus, A. Niessner, P. Balling, P. Kren, P. Klapetek, A. Lassila, A. Yacoot, G. B.Picotto, M.
Pisani, J. Flügge, U. Kuetgens, M. Celik, R. Hamid,
Optical interferometry with 10 pm level accuracy - the Project Nanotrace,
NanoScale 2008, 22.-23. September 2008, Turin, Italy.
 24. R. Hamid, M. Çetintaş, S. Çakır, O.Şen, S. Acak, H.Karacadağ
EMC Measurements and Tests at National Metrology Institute of Turkey (UME),
Conference Digest of 20th International Zurich Symposium on Electromagnetic Compatibility,
Zurich, Switzerland, 2009.
 25. A.Yacoot, M. Pisani, G. Picotto, U. Kuetgens, J. Flügge, P. Kren, A.Lassila, S. Seppä,
R. Hamid, M. Celik , M. Matus, A.Nießner,
NANOTRACE: the investigation of non-linearity in optical interferometers using x-ray interferometry
Proceeding of 9th International Symposium on Measurement Technology and Intelligent Instruments
(ISMTII-2009), pp. 216- 221, Saint-Petersburg, Russia, 2009.
-

-
26. C. Ülgüdür, F. Ö. Ilday, R. Hamid,
Long-Term Repetition-Frequency Stabilization of All-Normal-Dispersion Yb-Doped Fiber Laser to the Cesium Standard,"
Proceeding of Conference on Lasers and Electro-Optics (CLEO), OSA Technical Digest (CD) (Optical Society of America, 2010), paper JWA44., San Jose, USA, 2010.
27. M. Çelik, R. Hamid, C. Birlikseven, E. Sahin, L. Yağmur,
Sub-nanometer Displacement Measurements using Laser Beat Frequency Technique,
Proceeding of 9th Seminar on Quantitative Microscopy (QM) and 5th Seminar on
Nanoscale Calibration Standards and Methods, Nanoscale 2010, Brno, Czech Republic, 2010.
28. Ç. Şenel, F. Ö. Ilday, O. Kara, R. Hamid, C. Erdoğan,
Development and characterization of all-normal dispersion fiber laser for frequency comb generation"
2011 Advanced Solid-State Photonics (ASSP), Istanbul, 2011.
29. C. Senel, F. O. Ilday, O. Kara, R. Hamid, and C. Erdogan, "Development and characterization of all-normal dispersion fiber laser for frequency comb generation," in Advanced Solid-State Photonics, OSA Technical Digest (CD) (Optical Society of America, 2011), paper AME3.
<http://www.opticsinfobase.org/abstract.cfm?URI=ASSP-2011-AME3>.
30. C. Senel, F. O. Ilday, O. Kara, C. Birlikseven, C. Erdogan, and R. Hamid, "All-normal-dispersion fiber lasers for frequency metrology," in CLEO:2011 - Laser Applications to Photonic Applications, OSA Technical Digest (CD) (Optical Society of America, 2011), paper CFM2.
<http://www.opticsinfobase.org/abstract.cfm?URI=CLEO: S and I-2011-CFM2>.
31. C. Senel, R. Hamid, F. O. Ilday,
33 fs Yb-Doped Fiber Laser with Net-Zero Cavity Dispersion, National Optic, Electro-Optic and Photonic Conference, Koç University, Istanbul, 2012.
32. C. Senel, R. Hamid, F. O. Ilday, C. Erdogan, M.Çelik, O. Kara,
33 fs Yb-Fiber Laser Comb for Metrology Applications,
National Optic, Electro-Optic and Photonic Conference, Koç University, Istanbul, 2012,
33. C. Senel, R. Hamid, C. Erdogan, M.Çelik, O. Kara, F. O. Ilday,
33 fs Yb-fiber laser comb for optical frequency metrology applications,
UFO, 2013
34. C. Senel, R. Hamid, C. Erdogan, M.Çelik, O. Kara, F. O. Ilday,
33 fs Yb-fiber laser comb locked to Cs atomic clock,
CLEO, 2013
-