

CURRICULUM VITAE

Gurevich Yuri Genriyovich

1 Personal Data

Name: Gurevich Yuri Genriyovich

Citizenship: Mexican

Date of Birth: 1943

Place of Birth: Chelyabinsk, Russia

Status: married, one son

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SNI (from 1995): Emeritus (from 2014)

Investigator CINVESTAV (from 1993), Level Emeritus (from 2023)

2 Education

Master of Science—M. Sc.: Theoretic Physics, Kharkov State University, 1965. Thesis “Nonlinear Propagation of the Electromagnetic Waves in Semiconductors”

Candidate of Science—Ph. D.: Solid State Physics, Institute of Semiconductors (Academy of Science of the USSR), Leningrad, 1968. Thesis “Theoretical Research on Propagation High-Amplitude Electromagnetic Waves in a Solid State and Gas Discharge Plasmas.”

KS,1 citation

Academic Title of the Senior Scientist: Theoretical and Mathematical Physics, Academy of Science of the USSR, 1978

Habilitation, Doctor of Science: Semiconductor and Dielectric Physics, Institute of Radiotechnics and Electronics (Academy of Science of the USSR), Moscow, 1980. Thesis “Electrons and Phonons in Bounded Semiconductors in Temperature and Electric Fields.”

DS,2 citations

Academic Title of the Professor: Theoretical and Experimental Physics, Ministry of the Education of the USSR, 1987

3 Positions

- Junior Research Fellow, Institute of Radiophysics and Electronics (Ukrainian Academy of Science), Kharkov, 1966–1975.
- Senior Research Fellow, Institute of Radiophysics and Electronics (Ukrainian Academy of Science), Kharkov, 1975–1986.
- Leading Research Fellow, Institute of Radiophysics and Electronics (Ukrainian Academy of Science), Kharkov, 1986–1993.
- Full Professor, Kharkov Polytechnic University, 1981–1993.
- Professor Titular 3-F, Physics Department, Center for Research and Advanced Studies [CINVESTAV—I.P.N.], México D.F., since 1993.

4 Visiting Positions

- Associated professor, Fergana University, Fergana, Uzbekistan, October–November, 1984.
- Associated professor, Fergana University, Fergana, Uzbekistan, October–November, 1986.
- Associated professor, Nakhichevan University, Nakhichevan, Azerbaijan, November 1988.
- Associated professor, Teachers Training Institute, Ternopil, Ukraine, April–May, 1988.
- Associated professor, Teachers Training Institute, Ternopil, Ukraine, April–May, 1993.
- Participant of the Research Workshop on Condensed Matter Physics (Group on Semiconductor Physics), International Centre for Theoretical Physics, Trieste, Italy, July 16–August 13, 1995.
- Consultant of the Energy Conversion Devices, Inc., Troy, USA, April, 1996

- Associated professor, National University of Colombia, January–February, 2001.
- Sabbatical Year in Spain, University of Salamanca, 15.07.05–08.07.06
- Profesor Visitante de la Seccion de Estudios de Posgrado e Investigacion de la Escuela Superior de Ingenieria Mecanica y Electrica–Unidad Culhuacan, Instituto Politecnico Nacional, Mexico D.F., Mexico, de 09.11.07
- Visiting professor, A. Usikov Institute for Radiophysics and Electronics (IRE NASU), National Academy of Sciences of Ukraine, Kharkov, Ukraine, July 1–30, 2008
- Visiting professor, Department of Electrical and Electronic Engineering, St. Petersburg State University of Refrigeration and Food Engineering, The Federal Agency on Education of the Russian Federation, St. Petersburg, Russia, August 1–18, 2008
- Profesor Visitante Senior, Sabatico en Espana, Universidad de Salamanca, 01.04.10–04.11.10.

5 Scientific Awards

- Excellent Diploma of the M. Sc., 1965.
- Diploma of the Fergana State Obkom VLKSM, Uzbekistan, 1982.
- National Investigator Level II, National System of the Investigators, Mexico, since 1995.
- Academician of the International Thermoelectric Academy, since 1995.
- Corresponding Member of the Academy of Engineering Sciences of Ukraine, since 1996.
- International Thermoelectric Academy Diploma for Fundamental Contribution in the Development of Modern Theory of Thermoelectric Phenomena, 1996.
- Regular Member of the Mexican Academy of Sciences, Mexico, since 1996.
- National Investigator Level III, National System of the Investigators, Mexico, since 1998.
- Vice-President of the International Thermoelectric Academy, since 2000
- Premio Francisco Mejia Lira, Sociedad Mexicana de Ciencia de Superficies y Vacio A. C., En reconocimiento a su trayectoria cientifica y la formacion de recursos humanos en Mexico, 2003

- XXIII Congreso Nacional de la Sociedad Mexicana de Ciencia de Superficies y Vacío A. C., Simposio "Transporte en Semiconductores", Celebración del 60 aniversario del Dr. Yuri G. Gurevich, 29 de Septiembre al 2 de Octubre, 2003, Huatulco, Oaxaca, Mexico
- Commemorating 60-th Anniversary of Yury Genrikhovich Gurevich, Journal of Thermoelectricity, 2003, # 4, p.90
- To 60-Years of Birthday, Physics and Chemistry of Solid State, 2004, Vol.5, # 2, p.400
- Member of the International Biographical Centre Research Council, (Cambridge, England), since 2005.
- Ministerio de Educación y Ciencia de España, Programa: Ayudas para movilidad de profesores de universidad e investigadores españoles y extranjeros, Modalidad: Estancias de profesores e investigadores extranjeros, de acreditada experiencia, en régimen de año sabático en España (Universidad de Salamanca, España, 15.07.05–08.07.06)
- V. O. Yampolsky, "Gurevich Yuri Genrikhovich," in Modern Ukraine Encyclopedia, in 8 Vol., Vol. 6, p. 650, 2006. (in Ukraine)
- Coloquio Departamental, Departamento de Física, CINVESTAV–I.P.N., Presentación del Libro Yu. G. Gurevich, Felipe Perez Rodriguez "Fenómenos de Transporte en Semiconductores", FCE, 28 de Marzo, 2007, Mexico D.F.
- Miguel Melendez Lira, Libros: Fenómenos de Transporte en Semiconductores, Superficies y Vacío, Vol. 20, No. 2, p. 38–39, 2007.
- Fondo de Cultura Económica (FCE), Presentación del Libro Yu. G. Gurevich, Felipe Perez Rodriguez "Fenómenos de Transporte en Semiconductores", IFUAP, 10 de Diciembre, 2007, Puebla, Mexico.
- Julio Mendoza Alvarez, Reseña del Libro "Fenómenos de Transporte en Semiconductores", de Yuri G. Gurevich, Felipe Perez Rodriguez, Revista CINVESTAV, Vol. 26, N. 4, p.72-73, 2007.
- Julio Mendoza Alvarez, Novedad Editorial: Fenómenos de Transporte en Semiconductores", *Conversus*, Vol. 67, Febrero, p. 52–53, 2008.
- Estancias Sabáticas al Extranjero para la Consolidación de Grupos de Investigación. Convocatoria CONACyT 2009–2010, Mexico D. F., Mexico.
- Universidad de Salamanca, Profesor Visitante Senior, de 1 de Abril de 2010 al 4 de Noviembre de 2010, España.
- El Consejo Nacional de Ciencia y Tecnología Otorga el Presente Reconocimiento por Valiosa Participación en la Décima Octava Semana Nacional de Ciencia y Tecnología, 24–28 Octubre, 2011, Mexico.

- Yuri Gurevich, in Book: Lelek N. I., Podbegalina T. G., Chakovska O. V., Shevadzutsky A. A., "Who is Who in Thermoelectricity", Handbook, 2011, p. 65–68, 286–324, Academy of Sciences of Ukraine. 681 p.
- Luis E. Gomez, Al Pie de la Letra, Pura Energia, Resena de "Fenomenos de Contacto y Sus Aplicaciones en Celdas Solares" de Yuri Gurevich y Miguel Melendez, Ciencia UANL (Univercidad Autonoma de Nuevo Leon), Vol 14, Num.3, p.332, 2011, Monterrey, Mexico.
- International Thermoelectric Academy Honorary Golden Prize in the Nomination: For Fundamental Contribution to Progress in Thermoelectricity, 2013.
- La Sociedad Mexicana de Ciencia y Tecnologia de Superficies y Materiales Otorga el Presente Reconocimiento a: Yuri Gurevich "Por Su Notable Trayectoria Academica y Sus Aportaciones a la Ciencia Mexicana", 2013.
- Yu. G. Gurevich, Dedicated to 70-th Birthday, Journal of Thermoelectricity, No. 5, 2013, p. 83.
- International Laboratory on Direct Energy Conversion and Nano-Engineering of Thermoelectric Structures, The ITMO University and the Ioffe Physical Thechnical Institute, St. Petersburg, Russia. 2014.
- A Full Member-Academician, International Academy of Refrigeration, since 2014
- National Investigator Emeritus, National System of the Investigators, Mexico, since 2014
- Diploma por su Labor Cientifica y Docente Realizada Durante 20 Años en el Departamento de Fisica, CINVESTA–I. P. N., 2014
- Diploma por su Labor Cientifica y Docente Realizada Durante 25 Años en el Departamento de Fisica, CINVESTA–I. P. N., 2019

6 Grants

- The Individual Grant of the International Science Foundation (Soros), USA, 1993
- The Grant for My Scientific Group on Ukraine of the International Science Foundation (Soros), USA, 1994
- Catedras Patrimoniales de Excelencia nivel II, México, 1993–1994.
- Project CONACyT—México. Fisica de Semiconductores Fuera de Equilibrio: Transporte No Lineal, Heteroestructuras y Fenomenos de Tunelamiento , # 481100-5-2081E9302, 1994–1995. (investigador)

- Catedras Patrimoniales de Excelencia nivel II, México, 1994–1995.
- Project CONACyT—México. Transporte Nolineal de Calor y de Carga en Semiconductores, # 1330P–E, 1996–1998. (Supervisor.)
- Project CONACyT—México. Catedra Patrimonial de Excelencia, Nivel II, For Dr. Igor Volovichev, Ukraine, 1997–1998. (Supervisor.)
- Project CONACyT—México. Fuerza Termoelectromotriz Estacionaria y No Estacionaria en los Semiconductores: Una Nueva Teoria y Nuevas Aplicaciones, # 28281E, 1999–2001. (Supervisor.)
- Project CONACyT—México. Transporte Lineal de los Portadores de Carga Fuera de Equilibrio: Teoria y Aplicaciones, # 36964 E, 2002–2004 (Supervisor.)
- Project CONACyT—México. Transporte no Lineal de Portadores de Carga Fuera de Equilibrio en Semiconductores: Nueva Teoria y Aplicaciones, # 46261, 2005–2007 (Supervisor.)
- Ministerio de Educacion y Ciencia de Espana, Programa: Ayudas para movilidad de profesores de universidad e investigadores espanoles y extranjeros, Modalidad: Estancias de profesores e investigadores extranjeros, de acreditada experiencia, en regimen de ano sabatico en Espana (Univercidad de Salamanca, Spaine, 15.07.05–08.07.06)
- Project de Ministerio de Ciencia e Innovacion, Espana. Modelización y simulación de Si and Si/SiGe FETs para aplicaciones de baja potencia y bajo ruido”, # TEC2005-02719, 2006-2008.(investigador extranjero).
- Project CONACyT—México. Posdoctorado, Nivel IV, For Dr. Antonio Ortiz Castro,2006–2007. (Supervisor).
- Project CINVESTAV-I.P.N.—México. Posdoctorado, For Dr. Igor Lashkevich, 2007–2008. (Supervisor).
- Project de Ministerio de Ciencia e Innovacion, Espana. FETs Nanometricos Basados en Si:Funcionamiento en Muy Altas Frecuencias y Aspectos Termicos, # TEC2008-02281, 2009-2011.(investigador extranjero).
- Project CINVESTAV-I.P.N.—México. Posdoctorado, For Dr. Salvador Felipe Diaz Albarran, 2009–2010. (Supervisor).
- Project CONACyT—México. Procesos no Lineales en Fenomenos de Transporte en Estructuras Semiconductoras, # 101608, 2010–2012 (Supervisor.)
- Beca CONACYT , Estancias Posdoctorales y Sabaticas al Extranjero para la Consolidacion de Grupos de Investigacion, Convocatoria 2009–2010, # 128158.

- Universidad de Salamanca, Profesor Visitante Senior, de 1 de Abril de 2010 al 4 de Noviembre de 2010, Espana.
- Proyecto de Investigacion Fundamental no Orientada, Programa Nacional de Proyectos de Investigacion Fundamental, Ministerio de Economia y Competitividad, TEC2012-32777, Espana, Simulacion y Desarrollo de Dispositivos Semiconductores para Aplicaciones en THz, 2013-2016 (investigador-extranjero).
- Project CONACyT—México. Transporte Mono- y Bipolar en Estructuras Semiconductoras, # 219589, 2015-2018 (Supervisor.)
- Project CONACyT—México, # 219589, 2015-2018, Posdoctorado, For Dr. Brahim El Filali, 2015-2016 (Supervisor).
- Project CONACyT—México, Posdoctorado, For Dra. Isis Chetzyl Ballardo Rodriguez, 2017-2018 (Supervisor).
- Project CONACyT—México, Posdoctorado, For Dr. Francisco Eduardo Urbano Altamirano, 2018-2019 (Supervisor).
- Project CONACyT—México, Posdoctorado, For Dr. Francisco Eduardo Urbano Altamirano, 2019-2020 (Supervisor).

7 Societies and Organizations

- La Sociedad Mexicana de Ciencia de Superficies y Vacío A. C., since 2001
- La Sociedad Mexicana para el Progreso de la Ciencia y la Tecnología, since 1996
- Academy of Engineering Sciences of Ukraine, since 1996
- Mexican Academy of Sciences, since 1996
- International Thermoelectric Academy, since 1995
- American Association for the Advancement of Science, since 1995
- Mexican Physical Society, since 1994
- New York Academy of Sciences, since 1994
- International Thermoelectrical Society, since 1994
- Ukrainian Physical Society, since 1991
- Member of Board of Interrepublic Thermoelectric Society of CIS, since 1990

8 Teaching Courses

8.1 Kharkov Politechnical University

- Differential Equations of the Mathematical Physics, 68 Hours per Year (1982-1983).
- The Contemporary Problems of Physics, from 12 to 40 Hours per Year at Different Years (1983-1993).
- General Physics, 68 Hours per Year (1983-1989)
- Physics of Semiconductors and Contact Phenomenas, from 51 to 206 hours per year (1984–1993).

8.2 CINVESTAV—I.P.N., México, D.F.

- Transport Phenomena in Solid State and Solid State Structure, optativo, 42 horas (1996).
- Estado Solido, optativo, 48 horas (1999).
- Transporte de Electrones y Huecos en Estructuras Semiconductores, optativo, 42 horas (2007).
- Topicos Selectos de Estado Solido, optativo, 48 horas (2007)

8.3 Lectures for M. Sc., Ph. D. students and Investigators in Mexico

- Physics Department, CINVESTAV–I.P.N., Coloquio Departamental “Difusión y arrastre mono- y ambipolar en estructuras semiconductoras,” 11 de Diciembre, 2019.
- Physics Department, CINVESTAV–I. P. N., Seminario de Introduccion Propedeuticos Primavera, 2019, ”Ley de Ohm: ¿Qué es?,” 13 de Febrero, 2019.
- Physics Department, CINVESTAV–I.P.N., Seminar del Grupo de Estado Solido “Myth and Reality about Thomson Effect,” 16 de Mayo, 2017
- Univercidad Autonoma de Zacatecas ”Francisco Garcia Salinas”, La Unidad Academica de Fisica, Ciclo de Seminarios febrero-julio 2014, Efecto Dember: Mitos y Realidades, Zacatecas, Mexico, 05 de Junio, 2014
- Physics Department, CINVESTAV–I.P.N., Coloquio Departamental “Termoelectrísidad: Ciencia y Aplicaciones,” 21 de Junio, 2013.
- Physics Department, CINVESTAV–I. P. N., Seminario de Introduccion Propedeuticos Primavera, 2013, ”Transporte Mono y Ambipolar en Semiconductores,” 20 de Marzo, 2013.

- Physics Department, CINVESTAV–I.P.N., Coloquio Departamental “Las Características Eléctricas de la Unión p-n,” 9 de Marzo, 2011.
- Physics Department, CINVESTAV–I.P.N., Coloquio Departamental “Transporte de Portadores Fuera de Equilibrio,” 14 de Octubre, 2009.
- Physics Department, CINVESTAV–I. P. N., Seminario de Introduccion Propedeuticos Primavera, 2009, “Efectos Termoelectricos y Efectos Electrotermicos,” 01 de Abril, 2009.
- Physics Department, CINVESTAV–I. P. N., Seminario de Introduccion Propedeuticos de Verano, 2007, “Celdas Solares,” 25 de Julio, 2007.
- Physics Department, CINVESTAV–I.P.N., Coloquio Departamental “Nonequilibrium Carriers in Bipolar Semiconductors,” 20 de Junio, 2007.
- Physics Department, CINVESTAV–I. P. N., Seminario de Introduccion Propedeuticos de Primavera 2007, “Cuasiparticulas: Electrones, Huecos y Fonones en Semiconductores,” 18 de Abril, 2007.
- Physics Department CINVESTAV–I.P.N., Seminario del Grupo de Estado Solido “Transport of Nonequilibrium Charge Carriers in Bipolar Semiconductor,” 5 de Septiembre, 2006.
- Physics Department, CINVESTAV–I.P.N., Coloquio Departamental “Transport of Nonequilibrium Charge Carriers in Semiconductor Structure,” 26 May, 2004.
- Physics Department, CINVESTAV–I. P. N., Seminario de Introduccion Cursos Propedeuticos de Primavera 2004, “Cuasiparticulas Fuera de Equilibrio en los Semiconductores,” 14 de Abril, 2004.
- Physics Department, CINVESTAV–I.P.N., Seminario de Introduccion Cursos Propedeuticos de Primavera 2003, “Electron Transport in Semiconductor Structures,” 26 de Febrero, 2003.
- Physics Department, CINVESTAV–I.P.N., Seminario de Introduccion Cursos Propedeuticos, Primavera 2002, “Electrons and Phonons in Semiconductores,” 10 de Abril, 2002.
- Physics Department, CINVESTAV–I.P.N., Statistical Physics Seminar “Galvanomagnetic Phenomena as Statistical Processes,” 21 January, 2002.
- Physics Department, CINVESTAV–I.P.N., Seminario de Introduccion Cursos Propedeuticos, Primavera 2001, “Termoelectricidad,” 7 March, 2001.
- Physics Department, CINVESTAV–I.P.N., Coloquio, Seccion de Estado Solido, “Generation–Recombination Processes in Semiconductors”, 31 October, 2000

- Physics Department, CINVESTAV–I.P.N., Statistical Physics Seminar “Non-Equilibrium Charge Carriers in Linear Transport,” 26 June, 2000
- Physics Department, CINVESTAV–I.P.N., Coloquio Departamental “Thermoelectric Phenomena as Nonequilibrium Transport in Semiconductors,” 17 February, 1999
- Physics Department, CINVESTAV–I.P.N., Seminario de Introduccion Cursos Propedeuticos, Primavera 98, “Nonlinear Phenomena in Semiconductors,” 6 May, 1998
- Physics Department, CINVESTAV–I.P.N., Statistical Physics Seminar “Electrical Instabilities in Semiconductors,” 27 April, 1998
- Physics Department, CINVESTAV–I.P.N., Statistical Physics Seminar “Frustration of the Current in Homogeneous Bounded Media,” 24 November, 1997
- El Instituto de Fisica de la Universidad Autonoma de Puebla, Seminario “Electron and Phonon Temperature “Waves” and Thermic Pulses in Semiconductors,” 24 October, 1997
- Physics Department, CINVESTAV—I.P.N., Coloquio Departamental “Electrical Instability in Solid State,” 19 June, 1996
- Laboratorio de Investigacion en Materiales CINVESTAV–I.P.N., Queretaro, Seminario del Laboratorio “Heat Transport in Semiconductors,” 26 Febrero, 1996
- Physics Department CINVESTAV–I.P.N., Seminario del Grupo de Estado Solido “Hot Electrons and Solid State Electronics,” 26 April, 1995
- El Instituto de Fisica—a la Universidad Autonoma de San Luis Potosi, Seminario Fisica del Estado Solido “Hot Electrons in Semiconductors: What is This,” 23 February, 1995
- El Instituto de Fisica de la Universidad Autonoma de Puebla, Seminario “Nonlinear High–Frequency Phenomena in Semiconductors,” 10 February, 1995
- Physics Department, CINVESTAV—I.P.N., Coloquio Departamental “Do You Really Know What Voltage Is?,” 7 September, 1994
- Physics Department, CINVESTAV—I.P.N., Seminario del Grupo de Espectroscopia Fototermica “Thermal Transport in Semiconductors,” 6 September, 1994
- Semiconductor Department, ICUAP BUAP, Salon de Clases de la Maestria en Dispositivos Semiconductores “Heat Conductivity in Many Temperatures Model,” 9 June, 1994

9 Advisory Postdoctoral Position

1. Project CONACyT—México. Catedra Patrimonial de Excelencia, Nivel II, For Dr. Igor Volovichev, Ukraine, 1997–1998. (Supervisor.)
2. Project CONACyT—México. Posdoctorado, Nivel IV, For Dr. Antonio Ortiz Castro, 2006–2007. (Supervisor)
3. Project CINVESTAV-I.P.N.—México. Posdoctorado, For Dr. Igor Lashkevich, 2007–2008. (Supervisor).
4. Project CINVESTAV-I.P.N.—México. Posdoctorado, For Dr. Salvador Felipe Diaz Albarran, 2009–2010. (Supervisor).
5. Project CONACyT—México, 219589, 2015–2018, Posdoctorado, For Dr. Brahim El Filali, 2015–2016 (Supervisor).
6. Project CONACyT—México, Posdoctorado, For Dra. Isis Chetzyl Ballardo Rodriguez, 2017-2018 (Supervisor).
7. Project CONACyT—México, Posdoctorado, For Dr. Francisco Eduardo Urbano Altamirano, 2018-2019 (Supervisor).
8. Project CONACyT—México, Posdoctorado, For Dr. Francisco Eduardo Urbano Altamirano, 2019-2020 (Supervisor).

10 Advisory Habilitation, Doctor of Science Thesis

10.1 Graduated

1. I. N. Volovichev, “Transport of Nonequilibrium Charge Carriers in Multi-component Plasma-Like Media,” O. Ya. Usikov Institute for Radiophysics and Electronics of the National Academy of Sciences of Ukraine, 2018 [in Ukraines]
2. V. B. Yurchenko, “Nonlinear Phenomenas of Transport and EMF in Micron and Submicron Structures,” Institute of Radiophysics and Electronics, Kharkov, Ukraine, 1994 [in Russian]
3. G. N. Logvinov, “Thermoelectric Phenomenas and Electrical Conductivity in Semiconductor Submicron Layer,” Chernovtsy State University, Ukraine, 1994 [in Ukrainian]
4. A. I. Vakser, “Transport Phenomena in Semiconductors with Inhomogeneously Heated Electrons,” Kharkov State University, Ukraine, 1990 [in Russian]

11 Advisory PhD Thesis

11.1 Graduated

1. Sergio Molina Valdovinos, CINVESTAV—I.P.N., México D.F., México, "Fenómenos Galvanomagnéticos en Semiconductores Bipolares con Portadores Fuera de Equilibrio," 22 de Marzo, 2012. [in Spanish]
2. Oscar Angeles Fragoso, SEPI-ESIME Culhuacan, I.P.N., Mexico D. F., Mexico, "Nueva Teoria de Enfriamiento Termoelectrico: Modelo de Dos Temperaturas," Diciembre 10, 2010. [in Spanish]
3. Antonio Ortiz Castro, CINVESTAV—I.P.N., México D.F., México, "Fuerza Termoelectromotriz en Semiconductores Intrinsecos," Febrero 4, 2003. [in Spanish]
4. Jose Luis Salazar Laureles, CINVESTAV—I.P.N., México D.F., México. "Procesos Transitorios de Calor en los Subsistemas de Electrones y Fonones en Semiconductores," Mayo 3, 2002. [in Spanish]
5. Leonardo Villegas Lelovsky, CINVESTAV—I.P.N., México D.F., México. "El Efecto de la Recombinacion y la Difusion de los Portadores de Carga Fuera de Equilibrio de un Semiconductor en un Campo de Temperatura sobre la Senal Fotoacustica," Abril 26, 2002 [in Spanish]
6. A. V. Meriuts, "The Role of Nonequilibrium Carriers of Charge in Linear Transport Phenomena in Bounded Semiconductors," Institute of Monocrystal, Kharkov, Ukraine, 2002 [in Russian]
7. Gabino Espejo Lopez, CINVESTAV—I.P.N., México D. F., México. "Nuevo Enfoque de los Fenomenos Termoelectricos en Semiconductores Bipolares," Agosto 1, 2000 [in Spanish]
8. Narcizo Muñoz Aguirre CINVESTAV—I.P.N., México D. F., México, "Estudio de Parametros Termicos Efectivos en Estructuras Multicapa," Marzo 2, 2000 [in Spanish]
9. Alvaro Francisco Carballo Sánchez, CINVESTAV—I.P.N., México D. F., México, "Propagación de un Pulso Térmico en un Medio Conductor Finito," Enero 22, 1999. [in Spanish]
10. Oleg Titov, CINVESTAV—I.P.N., México D. F., México, "Teoría de Fenómenos Termoeléctricos en Semiconductores Bipolares y Películas Semiconductoras Submicrónicas," [Theory of Thermoelectric Phenomena in Bipolar Semiconductor and Submicron Films], Octubre 17, 1997.
11. I. N. Volovichev, "Transport Phenomena in Untraditional Semiconductors and Semiconductor Structures," Institute of Monocrystals, Kharkov, Ukraine, 1996, [in Russian]

12. N. Zakirov, "Influence of the Samples Geometry on the Galvanomagnetic and Thermal Size Effects in the Limited Semiconductors," Tashkent State University, Uzbekistan, 1994 [in Russian]
13. L. A. Shekhtman, "The Theory of the Two Temperature Heat Conductivity and Thermomagnetic Effects in Bounded Semiconductors (Two Dimensional Problems)," Chernovtsy State University, Ukraine, 1988 [in Russian]
14. V. B. Yurchenko, "EMF in Semiconductor Structures under Photoheating of the Charge Carriers," Kharkov Politechnic University, Ukraine, 1984 [in Russian]
15. O. L. Mashkevich, "Heating and Drag Quasiparticles in Solid State," Kharkov Politechnic University, Ukraine, 1982 [in Russian]
16. A. M. Konin, "Galvanomagnetic and Thermomagnetic Effects in Bounded Semiconductors under Heating and Drag of the Phonons," Institute for Semiconductors, Academy of Science of the Lithuania, Vilnius, Lithuania, 1977 [in Russian]
17. A. I. Vakser, "Heat Size Effects in Semiconductors under Strong Heating," Donetsk Physic-Technic Institute, Academy of Science of the Ukraine, Donetsk, Ukraine, 1974 [in Russian]
18. L. B. Vatova, "Theory of the Nonlinear Propagation of the Electromagnetic Waves in Solid State and Plasma," Donetsk Physical-Technical Institute, Academy of Science of the Ukraine, Donetsk, Ukraine, 1974 [in Russian]
19. O. N. Chavchanidze, "Theory of the Propagation of the Strong Electromagnetic Waves in Semiconductors with Dielectric Constant Jumps," Tbilisi State University, Georgia, 1972 [in Russian]
20. V. S. Bochkov, "Galvanomagnetic and Thermomagnetic Effects and Current-Voltage Characteristics of Space Limited Semiconductor Samples," Institute for Semiconductors, Academy of Science of the Ukraine, Kiev, Ukraine, 1972 [in Russian]
21. M. V. Kvimsadze, "Nonlinear Theory of the Propagation of the Electromagnetic Waves in Bipolar Plasma of the Solid State and Gas Discharge," Tbilisi State University, Georgia, 1971 [in Russian]

11.2 In Preparation PhD Thesis:

1. Jose Luis del Rio Valdes, SEPI-ESIME Culhuacan, I.P.N., Mexico D. F., Mexico, "Enfriamiento Termoelectrico: Temperatura Minima".

12 Advisory Master of Science Thesis

12.1 Graduated

1. A. I. Vakser, Kharkov State University, Ukraine
2. T. S. Gredeskul, Kharkov State University, Ukraine
3. O. E. Bukhshtab, Kharkov State University, Ukraine
4. V. B. Yurchenko, Kharkov Politechnic University, Ukraine
5. L. A. Shekhtman, Kharkov Politechnic University, Ukraine
6. A. V. Bochkov, Kharkov Politechnic University, Ukraine
7. I. N. Volovichev, Kharkov Politechnic University, Ukraine
8. D. E. Tananko, Kharkov Politechnic University, Ukraine
9. A. V. Meriuts, Kharkov Politechnic University, Ukraine
10. V. L. Zozulya, Kharkov Politechnic University, Ukraine
11. G. N. Khripunov, Kharkov Politechnic University, Ukraine
12. Narcizo Munoz Aguirre, CINVESTAV—I.P.N., México D.F., México, "Transporte de Calor por Electrones y Fonones en Semiconductores en la Aproximación Estática. Aplicación a Fenómenos Termoeléctricos", August, 29, 1996 [in Spanish].
13. Carlos Cristobal Cortes Campos, CINVESTAV—I.P.N., México D.F., México, "Enfriamiento Termoelectrico: Influencia de Portadores de Carga Fuera de Equilibrio," Diciembre 5, 2008. [in Spanish]
14. Rigoberto Cruz Albino, CINVESTAV—I.P.N., México D.F., México, "Características de Corriente y Voltaje en una Union p-n: Nuevo Punto de Vista," Diciembre 7,2009. [in Spanish]

12.2 In Preparation Master of Science Thesis

1. NA

13 Advisory Bachelor of Science Thesis

13.1 Graduated

1. Antonio Ortiz Castro, Facultad de Ciencias, Division de Estudios Profesionales, UNAM-Mexico, Mexico D.F., Mexico, "Fuerza Termoelectromotriz en Semiconductores Intrínsecos: Nuevo Punto de Vista", February 18,2004 [in Spanish].

2. Anfitrión de Estudiante Asignado David Oswaldo Rocha en la Edición XXIX del Programa Verano de la Investigación Científica de la Academia Mexicana de Ciencias, 01.07.19–15.09.19.

14 Other Scientific Activities

- Vice-President of the International Thermoelectric Academy, 2000
- Expert of the Government Science-Technic Programs of the Ukraine
- Member of the Scientific Board “Thermoelectric Materials and its Applications” of the Ukrainian Academy of Science /item Associate Editor of the Journal ”International Journal of Thermophysics. /item Member of the Editorial Advisory Board of the Journal ”International Journal of Thermophysics.
- Member of the International Editorial Board of the Journal ”Physics and Chemistry of Solid State”.
- Member of the International Editorial Board of the ” Journal of Thermoelectricity”.
- Member of the Editorial Board of the ” Journal of Electrical Engineering”, David Publishing Company, USA.
- Member of the Editorial Board of the ”Bulletin of Kharkiv National Karazin University. Series of Physics”, Ukraine.
- Member of the Editorial Board of the Proceedings of The VII International Conference on Physics and Technology of Thin Films, NASU Press, Kiev, Ukraine, 1999.
- Member of the Prizes Committee of the Mexican Society of Surface and Vacuum for Best PhD Thesis 2002
- Member of the Organizing Committee of the Conference: II Ukrainian Seminar “Physics of Thin Films,” 21–24 May, 1980, Ivano-Frankovsk, Ukraine
- Member of the Organizing Committee of the Conference: IV Ukrainian Seminar “Physics and Technology of the Thin Films (Applications),” 21–24 September, 1982, Ivano-Frankovsk, Ukraine
- Member of the Organizing Committee of the Conference: V Ukrainian Seminar “Physics and Technology of the Thin Films (Applications),” 16–21 May, 1983, Ivano-Frankovsk, Ukraine
- Member of the Organizing Committee of the Conference: II All-Union Conference “Physics and Technology of the Thin Films (Problems),” 14–19 May, 1984, Ivano-Frankovsk, Ukraine

- Member of the Organizing Committee of the Conference: VII Ukrainian Seminar “Physics and Technology of the Thin Films (Radiation Methods in Physics, Chemistry, and Technology),” 29 October – 1 November, 1985, Ivano-Frankovsk, Ukraine
- Member of the Organizing Committee of the Conference: I All-Union Workshop “Thermodynamics and Technology of the Semiconductor Crystals and Films,” 4–14 October, 1986, Ivano-Frankovsk, Ukraine
- Member of the Organizing Committee of the Conference: IX Ukrainian Seminar “Physics and Technology of the Thin Films (Mathematical Simulation),” 14–17 October, 1988, Ivano-Frankovsk, Ukraine
- Member of the Organizing Committee of the Conference: III All-Union Conference “Physics and Technology of the Thin Semiconductor Films,” 9–12 October, 1990, Ivano-Frankovsk, Ukraine
- Member of the Organizing Committee and Programme Committee of the Conference: IV International Conference “Physics and Technology of the Thin Films,” 3–7 May, 1993, Ivano-Frankovsk, Ukraine.
- Member of the 9-UFSP (9th Symposium on Ultrafast Phenomena in Semiconductors) International Advisory Committee, 5-7 September, 1995, Vilnius, Lithuania
- Member of the Organizing Committee VI International Conference in Physics and Technology of Thin Films, Ivano-Frankivsk, Ukraine, 26–31 May, 1997.
- Member of the Organizing Committee VII International Conference on Physics and Technology of Thin Films, Ivano-Frankivsk, Ukraine, 4–9 October, 1999.
- Member of the International Program Committee of the Ist International Workshop “Mathematical Modeling of Physical Processes in Inhomogeneous Media, Guanajuato, Mexico, March 20–22, 2001.
- Member of the Organizing Committee VIII International Conference on Physics and Technology of Thin Films, Ivano-Frankivsk, Ukraine, 14–19 May, 2001.
- Member of the Organizing Committee IX International Conference on Physics and Technology of Thin Films, Ivano-Frankivsk, Ukraine, 19–24 May, 2003.
- Member of the Organizing Committee X International Conference on Physics and Technology of Thin Films, Ivano-Frankivsk, Ukraine, 15–22 May, 2005.

- Member of the Organizing Committee XI International Conference on Physics and Technology of Thin Films and Nanosystems, Ivano-Frankivsk, Ukraine, 7–22 May, 2007.
- Member of the Organizing Committee of the International Conference on Materials, Surfaces and Vacuum, Veracruz, Mexico, Del 29 de Septiembre al 3 de Octubre, 2008.
- Member of the Organizing Committee XII International Conference on Physics and Technology of Thin Films and Nanosystems, Ivano-Frankivsk, Ukraine, 18–23 May, 2009.
- Member of the International Advisory Board of the International Conference on Surfaces, Materials and Vacuum, San Luis Potosi, Mexico, September 21–25, 2009.
- Member of the Honored Organizing Committee of the XIII International Forum on Thermoelectricity, Kiev, Ukraine, 10.02–13.02, 2009.
- Member of the International Advisory Board of the International Conference on Surfaces, Materials and Vacuum, Playa Paraiso, Riviera Maya, Q. Roo, Mexico, September 27–October 1, 2010.
- Member of the International Organizing Committee XIII International Conference on Physics and Technology of Thin Films and Nanosystems, Ivano-Frankivsk, Ukraine, 16–21 May, 2011.
- Member of the International Organizing Committee of the XIV International Forum on Thermoelectricity, Moscow, Rusia, 16.05–21.05, 2011.
- Member of the Program Committee of the IV International Conference on Surfaces, Materials and Vacuum, Puerto Vallarte, Mexico, 26–30 September, 2011.
- Member of the International Advisory Committee of the 16th International Conference on Photoacoustic and Photothermal Phenomena, Merida, Yucatan, Mexico, November 27–December 1, 2011.
- Member of the International Organizing Committee of the XV International Forum on Thermoelectricity, Tallinn, Estonia, May 20-24, 2013
- Member of the International Organizing Committee, XIV International Conference on Physics and Technology of Thin Films and Nanosystems, Ivano-Frankivsk, Ukraine, 20–25 May, 2013.
- Member of the International Scientific Committee, VI International Conference on Surfaces, Materials and Vacuum, Merida, Yucatan, Mexico, September 23–27, 2013.

- Member of the International Steering and Advisory Committee, 17th International Conference on Photoacoustic and Photothermal Phenomena, Suzhou, China, October 20–24, 2013.
- Member of the Technical Program Committee , International Conference on Mechanics and Civil Engineering (ICMCE2014), Wuhan, Hubei, China, December 13–14, 2014
- Member of the International Organizing Committee, XIV International Conference on Physics and Technology of Thin Films and Nanosystems, Ivano-Frankivsk, Ukraine, 11–16 May, 2015.
- Member of the International Steering and Advisory Committee, 18th International Conference on Photoacoustic and Photothermal Phenomena (ICPPP18), Novi Sad, Serbia, September 6–10, 2015.
- Member of the Technical Program Committee, First International Conference on Applied Science and Technology (ICAST2015), Sanya, China, December 19–21, 2015.
- Member of the International Scientific Committee of the IX International Conference on Surfaces, Materials and Vacuum, Mazatlan, Mexico, September 26th to 30th, 2016.
- Member of Program Committee of the 13th International Conference on Electrical Engineering, Computing Science and Automatic Control (CCE 2016), Mexico D. F., Mexico, September 26–30, 2016.
- Member of the International Steering and Advisory Committee, 19th International Conference on Photoacoustic and Photothermal Phenomena (ICPPP19), Bilbao, Spain, July 16–20, 2017.
- Member of the Program Committee and Editorial Board XVII International Freik Conference on Physics and Technology of Thin Films and Nanosystems, Ivano-Frankivsk, Ukraine, 20–25 May, 2019.
- Member of the International Steering and Advisory Board, 20th International Conference on Photoacoustic and Photothermal Phenomena (ICPPP20), Moscow, Russia, July 7–12, 2019.
- Member of the International Steering and Advisory Board , ICPPP-21 International Conference on Photoacoustic and Photothermal Phenomena, Bled, Slovenia, 13–18 June, 2021.
- Member of the Program Committee, XVIII International Freik Conference on Physics and Technology of Thin Films and Nanosystems, Ivano-Frankivsk, Ukraine, 11–16 October, 2021.
- Member of the International Steering and Advisory Board , ICPPP-21 International Conference on Photoacoustic and Photothermal Phenomena, Bled, Slovenia, 19–24 June, 2022

- Physics Expert, International Conference on Physics and its Applications, San Francisco, USA, July 18-20, 2022.
- ISAB Members, International Scientific Advisory Board Members, The International Congress on Optics, Electronics, and Optoelectronics (ICOEO-2023), Xiamen, China, June 2-4, 2023.
- Member of the Scientific Committee, XIX INTERNATIONAL FREIK CONFERENCE ON PHYSICS AND TECHNOLOGY OF THIN FILMS AND NANOSYSTEMS, Ivano-Frankivsk, Ukraine, October 09-14, 2023,
- Organizador de Simposio "Semiconductors", IV International Conference on Surfaces, Materials and Vacuum, Puerto Vallarte, Mexico, 26–30 September, 2011.
- Simposia Organizers: "Semiconductors", International Conference on Surfaces, Materials and Vacuum, Playa Paraiso, Riviera Maya, Q. Roo, Mexico, September 27–October 1, 2010.
- Simposia Organizers: "Semiconductors", International Conference on Surfaces, Materials and Vacuum, San Luis Potosi, Mexico, September 21–25, 2009.
- Simposia Organizers: "Semiconductors", International Conference on Materials, Surfaces and Vacuum, Veracruz, Mexico, Del 29 de Septiembre al 3 de Octubre, 2008.
- Organizador de Simposio "Semiconductors", XXVII Congreso Nacional, Sociedad Mexicana de Ciencia y Tecnologia de Superficies y Materiales, Oaxaca, Mexico, 24 al 28 de Septiembre, 2007.
- Organizador de Simposio "Semiconductor", XXVI Congreso Nacional, Sociedad Mexicana de Ciencia y Tecnologia de Superficies y Materiales, Puebla, Mexico, 25 al 29 de Septiembre, 2006.
- Organizador de Simposio "Semiconductores", XXV Congreso Nacional, Sociedad Mexicana de Ciencia y Tecnologia de Superficies y Materiales, Zacatecas, Zac, Mexico, del 26 al 30 de Septiembre, 2005.
- Chair of the Session "Electromagnetic Theory and Dielectric Waveguides and Antennas", PIERS 2006 (Progress in Electromagnetics research Symposium, Cambridge, USA, March 26–29, 2006.
- Chair of the Oral Session 303 "Solid-State Electronics and VLSI", 1st International Conference on Electrical and Electronics Engineering and X Conference on Electrical Engineering, Acapulco, Mexico, September 8–10, 2004

- Chair of the Oral Session "Thermophysics and Thermoelasticity at Micro and Nanoscale", 16th International Conference on Photoacoustic and Photothermal Phenomena, Merida, Yucatan, Mexico, November 27–December 1, 2011.
- Member of the Presidiums of the Plenary Sitting and Section II B. "Theoretical Representations of Physical Properties of Thin Films and Crystal Structures" of the IV International Conference "Physics and Technology of Thin Films", Ivano-Frankivsk, Ukraine, 1993
- Chair of the Session "Physical Processes in Films and Active Elements", III All-Union Conference on Physics and Technology of Thin Semiconductor Films, Ivano-Frankivsk, Ukraine, 1990
- Member of the Presidium of the Plenary Sitting and Chair of the Oral Session, IX Ukraine Seminar "Physics and Technology of the Thin Films (Mathematical Simulation)", Ivano-Frankivsk, Ukraine, 14–17 October, 1988
- Chair of the Oral Session "Physical Properties of Thin Films", VII Ukrainian Seminar "Physics and Technology of the Thin Films (Radiation Methods in Physics, Chemistry, and Technology)", Ivano-Frankivsk, Ukraine, 29 October – 1 November, 1985
- Member of the Presidium of the Plenary Sitting "Electronic Phenomena in Films" of the II All-Union Conference "Physics and Technology of the Thin Films (Problems)", Ivano-Frankivsk, Ukraine, 14–19 May, 1984
- Member of the Presidium of the Plenary Sitting "Mechanical and Thermal Properties of Thin Films", V Ukrainian Seminar "Physics and Technology of the Thin Films (Applications)," Ivano-Frankivsk, Ukraine, 16–21 May, 1983
- Member of the Presidium of the Plenary Sitting "Hetero-Junction" of the IV Ukrainian Seminar "Physics and Technology of the Thin Films (Applications)," Ivano-Frankivsk, Ukraine. 21–24 September, 1982.
- Mesa Redonda: Fenómenos de Transporte, XLVI Congreso Nacional de Física. Merida, Yucatan, Mexico, 27–31 de Octubre, 2003.
- Mesa Redonda: Propiedades Magnéticas y Electrónicas, XLVI Congreso Nacional de Física. Merida, Yucatan, Mexico, 27–31 de Octubre, 2003.
- Referee of the book for Elsevier Science Ltd.
- Referee of the book for Bentham Science Publishers.
- Member of the Consejo Editorial of the book Temas Actuales de la Física y la Ciencia de Materiales, IF-BUAP, Puebla, México, 2013

- Referee of the Scientific Journal *Physical Review Letters*
- Referee of the Scientific Journal *The Physical Review, B*
- Referee of the Scientific Journal *The Physical Review, E*
- Referee of the Scientific Journal *The Physical Review Applied*
- Referee of the Scientific Journal *Applied Physics Letters*
- Referee of the Scientific Journal *Journal of Applied Physics*
- Referee of the Scientific Journal *IEEE Transactions on Electron Devices*
- Referee of the Scientific Journal *MRS Advances*
- Referee of the Scientific Journal *JETP*
- Referee of the Scientific Journal *Semiconductors*
- Referee of the Scientific Journal *Physics of the Solid State*
- Referee of the Scientific Journal *International Journal of Thermophysics*
- Referee of the Scientific Journal *Journal of Physics: Condensed Matter*
- Referee of the Scientific Journal *Semiconductor Science and Technology*
- Referee of the Scientific Journal *Journal of Physics D: Applied Physics*
- Referee of the Scientific Journal *Journal of Physics A: Mathematical and General*
- Referee of the Scientific Journal *Current Applied Physics*
- Referee of the Scientific Journal *International Journal of Applied Mathematics and Computer Science (AMCS)*
- Referee of the Scientific Journal *Microelectronics Journal*
- Referee of the Scientific Journal *Journal of Thermoelectricity*
- Referee of the Scientific Journal *Physica Status Solidi (a)*
- Referee of the Scientific Journal *Composites, Part B*
- Referee of the Scientific Journal *The European Physical Journal B*
- Referee of the Scientific Journal *Physica Status Solidi (b)*
- Referee of the Scientific Journal *Physics Letters A*
- Referee of the Scientific Journal *Modern Physics Letters B*
- Referee of the Scientific Journal *Physica A*

- Referee of the Scientific Journal *Nano Express*
- Referee of the Scientific Journal *SN Applied Sciences*
- Referee of the Scientific Journal *Canadian Journal of Physics*
- Referee for Institute of Physics Publishing Journals
- Referee of the Scientific Journal *International Journal of Thermal Sciences*
- Referee of the Scientific Journal *Journal of Materials Science*
- Referee of the Scientific Journal *Journal of Materials Science: Materials in Electronics*
- Referee of the Scientific Journal *Solid-State Electronics*
- Referee of the Scientific Journal *Sensors and Actuators: B. Chemical*
- Referee of the Scientific Journal *Optical and Quantum Electronics*
- Referee of the Scientific Journal *Physica Scripta*
- Referee of the Scientific Journal *The Journal of Physical Chemistry*
- Referee of the Scientific Journal *American Journal of Energy Engineering*
- Referee of the Scientific Journal *The Indian Journal of Physics*
- Referee of the Scientific Journal *Fire Safety Journal*
- Referee of the Scientific Journal *Journal of Renewable and Sustainable Energy*
- Referee of the Scientific Journal *Materials Research Bulletin*
- Referee of the Scientific Journal *Acta Physica Polonica A*
- Referee of the Scientific Journal *PIER and JEMWA (Journal of Electromagnetic Waves and Applications and Progress in Electromagnetic Research)*
- Referee of the Scientific Journal *Energy*
- Referee of the Scientific Journal *Journal of Electronic Materials*
- Referee of the Scientific Journal *International Journal of Mechanical Science*
- Referee of the Scientific Journal *Journal of Electrical Engineering*
- Referee of the Scientific Journal *Microelectronic Engineering*
- Referee of the Scientific Journal *Sensors*

- Referee of the Scientific Journal *The International Society of Automation (ISA) Transactions*
- Referee of the Scientific Journal *Journal of Theoretical and Applied Physics (JTAP)*
- Referee of the Scientific Journal *Atoms*
- Referee of the Scientific Journal *Coatings*
- Referee of the Scientific Journal *Ceramica*
- Referee of the Scientific Journal *Polymers*
- Referee of the Scientific Journal *Qeios*
- Referee of the Scientific Journal *Revista Mexicana de Fisica*
- Referee of the Scientific Journal *Ukrainian Physics Journal*
- Referee of the Scientific Journal *Revista Colombiana de Fisica*
- Referee of the Scientific Journal *Superficies y Vacío*
- Referee of the Scientific Journal *Scientific Research and Essays*
- Referee of the Scientific Journal *Revista Internacional de Investigacion e Innovacion Tecnologica*
- Referee of the Scientific Journal *Revista Politecnica, Ecuador*
- Referee of the Scientific Journal *Energy Report*
- Referee of the Scientific Journal *Journal of the International Measurement Confederation*
- Referee of the Scientific Journal *Physics and Chemistry of Solid State*
- Referee of the Scientific Journal *Academia Letters*
- Referee of the Scientific Journal *Indian Journal of Physics*
- Referee of the Scientific Journal *Solid State Communications*
- Referee of the Scientific Journal *Thermal Science and Engineering Progress*
- Referee of the Scientific Journal *Entropy*
- Referee of the Scientific Journal *IEEE Sensors Journal*
- Referee of the Scientific Journal *Physica A-Statistical Mechanics and its Applications*

- Referee of the Scientific Journal *ECS Journal of Solid State Science and Technology*
- Referee of the Scientific Journal *Optical and Quantum Electronics*
- Referee of the Scientific Journal *Materials Research Bulletin*
- Referee of the Scientific Journal *Journal of Physics and Chemistry of Solids*
- Referee of the Scientific Journal *The Journal of Physical Chemistry Letters*
- Referee of the Scientific Journal *Applied Sciences*
- Referee of the Scientific Journal *Materials Science in Semiconductor Processing*
- Referee of the Scientific Journal *Materials*
- Referee of the Scientific Journal *ACS Applied Materials and Interfaces*
- Referee of the Scientific Journal *AIP Advances*
- Referee of the Scientific Journal *Optical Materials*
- Referee of the Committees of Exact Sciences and Engineering, Materials and Manufacture for Investigative Projects CONACyT, 2001–2014
- Referee of the Convocatoria de Investigacion en Fronteras de la Ciencia, CONACyT, 2015, 2023.
- Referee of the Programa de Cooperacion Mexico-Estado Unidas, CONACyT–NSF
- Referee for the "Prizes of Investigations" of the National Polytechnical Institute of Mexico
- Referee of the Israel Science Foundation
- Referee of the KAMEA Program, Technion, Israel
- Referee of the 7th Conference of Electrical Engineering (CIE 2001), Mexico
- Referee of the 8th Conference of Electrical Engineering (CIE 2002), Mexico
- Referee of the 26th International Thermal Conductivity Conference/ 14th International Thermal Expansion Symposium Proceedings, Cambridge, Massachusetts, USA, 2001
- Referee of the 13th International Conference on Photoacoustic and Photothermal Phenomena (13 ICPPP), Rio de Janeiro, Brazil, 2004
- Referee of the XVII Latin American Symposium on Solid State Physics (SLAFES 2004), La Habana, Cuba, 2004

- Referee of the 25th International Conference on Microelectronics, Belgrade, Serbia and Montenegro, 2006
- Evaluador de los Premios: Tesis de Doctorado de Sociedad Mexicana de Ciencia y Tecnología de Superficies y Materiales A. C., 2007
- Evaluador del Premio a la investigación, Francisco Mejia Lira 2007 de Sociedad Mexicana de Ciencia y Tecnología de Superficies y Materiales A. C., 2007
- Referee of the 26th International Conference on Microelectronics, Nis, Serbia, 2008
- Referee of the 27th International Conference on Microelectronics, Nis, Serbia, 2010
- Referee of the 29th International Conference on Microelectronics, Belgrade, Serbia, 2014.
- Referee of the 10th International Conference on Heat Transfer, Fluid Dynamics and Thermodynamics (HEFAT2014), Orlando, Florida, 2014
- Evaluador de las Solicitudes de la XXIX Edición de Programa El Verano de la Investigación Científica, México, D. F., 21 de Mayo de 2019.

15 Experience

Nonlinear theory of the propagation of the electromagnetic waves in semiconductors and plasmas. Theory of hot electrons. Theory of transport phenomena in bounded semiconductors in strong temperature and electric fields. New mechanisms of generation of thermo- and photovoltaic in semiconductors. The electron-phonon drag and transport phenomena in semiconductors. Electric instability in semiconductors. Creation of the thermoelectric and ecology pure photoelectric convertors, thermorefrigerators. Electron and phonon thermal waves in semiconductors. In mathematics: boundary value problem (problem of Poincare), nonlinear differential equations.

16 Research Interests

Synergetics. Instability in solid state. Nonlinear phenomena. Thermal transport phenomena. Nonequilibrium electrons and phonons. Transport phenomena in the submicron semiconductor layers. Solid state electronics.

17 Patents

1. "Thermoelement," USSR, # 1559998. Priority by 5 August, 1988 (with A. V. Bochkov, O. L. Mashkevich)

2. "Thermoelement," USSR, # 1475424. Priority by 13 August, 1987 (with A. V. Bochkov, O. L. Mashkevich, A. P. Sashchuk, V. B. Yurchenko)

18 Citation Index 3414

Original articles cited in: 8 Patents USA (10 citations), 82 books (172 citations), 72 reviews (100 citations), 268 chapter in books and Proceedings (364 citations), 248 theses (860 citations), 1302 articles in journals (1893 citations), 12 Project (14 citation).

19 Publications

19.1 Monographs

1. F. G. Bass, Yu. G. Gurevich, Hot Electrons and Strong Electromagnetic Waves in Semiconductors and Gas Discharge Plasmas, Moscow, Nauka, 1975, 399 p. [in Russian]. MBG, 465 citations
2. , F. G. Bass, V. S. Bochkov, Yu. G. Gurevich, Electrons and Phonons in Bounded Semiconductors, Moscow, Nauka, 1984, 287 p. [in Russian]. MBBG, 172 citations
3. Yu. G. Gurevich, F. Perez Rodriguez, Fenomenos de Transporte en Semiconductores, Mexico, Fondo de Cultura Economica, 2007, 299 p., (in Spanish). TGP, 14 citations

19.2 Textbook for Universities

1. F. G. Bass, Yu. G. Gurevich, Contact Phenomena in Semiconductors and Devices Operating on Their Basis, Kharkov, IRE AN UKR.SSR Publishing, 1983, 55 p., (in Russian). TBG83
2. Yu. G. Gurevich, Contact Phenomena in Semiconductor Structures, Kiev, UMK VO Publishing, 1988, 116 p., (in Russian). TG
3. Yu. G. Gurevich, O. L. Mashkevich, Nonequilibrium Carriers in Semiconductors (Methodical Notes), Kharkov, University Press, 1988, 32 p., (in Russian) TGM
4. B. T. Boyko, Yu. G. Gurevich, Physics of Photoelectric Convertors of Solar Energy, Kharkov, Osnova, 1992, 176 p., (in Russian). TBG, 14 citations
5. Yuri Gurevich, Miguel Melendez, Fenomenos de Contacto y sus Aplicaciones en Celdas Solares, Mexico, Fondo de Cultura Economica, 2010, 303 p.,(in Spanish). TGMF, 16 citations

19.3 Chapter in Books

1. Yu. G. Gurevich, Electrons and Phonons in Electric and Temperature Fields, Lectures on the I Soviet Telavi Workshop-Symposium "Nonequilibrium Quasiparticles in Solid State," Tbilisi, Georgia, Tbilisi University Publishing, 1979, p. 160–195, (in Russian). ChG1
2. Yu. G. Gurevich, V. B. Yurchenco, Nonlinear Thermo-Voltage in Semiconductors under Inter-Band Absorption of Light, in "High-Frequency Properties of Solid State", Kiev, Ukraine, Naukova Dumka, 1985, p. 104–110, (in Russian). ChGY85K, 1 citation
3. Yu. G. Gurevich, O. V. Kirichenko, Galvanomagnetic Effects, p. 155–157, in Encyclopedic Dictionary "Solid State Physics", Ed. V. G. Bar'yakhtar, Naukova Dumka, Kyiv, Ukraine, Vol.I, 1996, p. 155–157(in Russian).
4. Yu. G. Gurevich, Thermomagnetic Phenomena, p. 362–363, in Encyclopedic Dictionary "Solid State Physics", Ed. V. G. Bar'yakhtar, Naukova Dumka, Kyiv, Ukraine, Vol.2, 1998, p. 362–363 (in Russian).
5. Yu. G. Gurevich, V. N. Dobrovolsky, Thermoelectric Phenomena, p. 368–369, in Encyclopedic Dictionary "Solid State Physics", Ed. V. G. Bar'yakhtar, Naukova Dumka, Kyiv, Ukraine, Vol.2, 1998, p. 368–369 (in Russian). GD98, 1 citation
6. Yu. G. Gurevich, Photovoltaic Effect, p. 448, in Encyclopedic Dictionary "Solid State Physics", Ed. V. G. Bar'yakhtar, Naukova Dumka, Kyiv, Ukraine, Vol.2, 1998, p. 448 (in Russian).
7. Yu. G. Gurevich, O. V. Kirichenko, Galvanomagnetic Effects, p. 501–503, in Encyclopedic Dictionary of Condensed Matter Physics, Ed. Charles P. Poole Jr., Vol. 1, Academic Press, Elsevier, 2004.
8. Yu. G. Gurevich, Photovoltaic Effect, p. 1002, in Encyclopedic Dictionary of Condensed Matter Physics, Ed. Charles P. Poole Jr., Vol. 2, Academic Press, Elsevier, 2004.
9. Yu. G. Gurevich, V. N. Dobrovolsky, Thermoelectric Phenomena, p. 11385–1386, in Encyclopedic Dictionary of Condensed Matter Physics, Ed. Charles P. Poole Jr., Vol. 2, Academic Press, Elsevier, 2004.
10. Yu. G. Gurevich, Thermomagnetic Phenomena, p. 1388, in Encyclopedic Dictionary of Condensed Matter Physics, Ed. Charles P. Poole Jr., Vol. 2, Academic Press, Elsevier, 2004.
11. V. M. Koshkin, I. N. Volovichev, Yu. G. Gurevich, L. P. Galchinetsky, I. M. Rarenko, Materials and Devices with Gigantic Radiation Resource, in "Dielectrics and Semiconductors for Sensors of Radiation", Ed. Yu. V. Malyukin, Series "The State of the Art and Outlook for Advancement of Functional Materials for Sciences and Technology", Single Crystal Institute Press, Kharkov, Ukraine, 2006, p. 5–64 (in Russian). ChKG, 13 citations

12. Yu. G. Gurevich, Nonlinearity in Solid State, AIP Conf. Proc. Advanced Summer School in Physics 2007: Frontiers in Contemporary Physics, Mexico D. F., Mexico , Vol. 960, p.203–209, 2007. G07, 2 citations
13. J. E. Velazquez-Perez, G. Espejo-Lopez, G. N. Logvinov, Yu. G. Gurevich, Transporte Lineal de Carga y Calor en Estructuras Semicondutoras: Un Nuevo Punto de Vista, in Tendencias Actuales de la Fisica en Mexico, Editores: Olga L. Y. Hernandez Chavez, Mario E. Pacheco Quintanilla, Moises Santillan Zeron, Instituto Politecnico Nacional, Mexico D. F., Mexico, 2008, p. 281–300 (en Espanol).
14. Yu. G. Gurevich, J. E. Velazquez-Perez, Peltier Effect in Semiconductor, Wiley Encyclopedia of Electrical and Electronics Engineering, John Wiley and Sons, p. 1–21, 2014, DOI:10.1002/047134608X.W8206. GVW14, 32 citations

19.4 Review Articles

1. F. G. Bass, Yu. G. Gurevich, Nonlinear Theory of the Propagation of Electromagnetic Waves in a Solid-State Plasma and in a Gaseous Discharge, *Sov. Phys. Uspekhi*, 1971, Vol.24 , p. 113–124. RBG, 73 citations
2. F. G. Bass, V. S. Bochkov, Yu. G. Gurevich, Current-Voltage Characteristics of Bounded Semiconductors, *Sov. Phys. Semicond.*, 1973, Vol. 7, p. 1–20. RBBG73, 72 citations
3. Yu. G. Gurevich, Thermoelectric and Thermomagnetic Effects in Semiconductors, *Ukrainsky Fiz. Zh.*, 1979, Vol. 24, p. 1601–1625 (in Russian). RG2,17 citations
4. Yu. G. Gurevich, Paradox of Heat Transfer in Semiconductors, *Priroda (Nature)*, 1986, No. 3, p. 66–75, (in Russian). RG3, 4 citations
5. Yu. G. Gurevich, Paradoxy Tepelne Vodivosti v Polovodicich, *Veda a Technico v SSSR*, 1987, No. 3, p. 143–150, (in Czech). RG4
6. Yu. G. Gurevich, O. L. Mashkevich, The Electron–Phonon Drag and Transport Phenomena in Semiconductors, *Physics Reports*, 1989, Vol.181, p. 327–394. RGM, 104 citations
7. Yu. G. Gurevich, G. N. Logvinov, O. Yu. Titov, Physics of Thermal Electromotive Force in the Monopolar Isotrope Semiconductors, *Journal of Thermoelectricity*, 1995, # 4, p. 3–31. RGLT,7 citations
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67. Yu. G. Gurevich, G. N. Logvinov, O. Yu. Titov, Thermoelectric Converter Based on Sorting of Carriers in Energy by Phonon Drag in p-n Junctions, Proceedings of 23rd International Conference on Thermoelectrics, IEEE, Adelaide, Australia, 25–29 July, 2004, #099, 2004. CGLTA, 2 citation
68. Yu. G. Gurevich, G. N. Logvinov, Barrierless Cooling: New Thermoelectric Effect, Proceedings of 23rd International Conference on Thermoelectrics, IEEE, Adelaide, Australia, 25–29 July, 2004, #100, 2005. CGLA, 4 citation
69. S. Vackova, V. Gorodyskyy, Yu. G. Gurevich, G. N. Logvinov, K. Zdan-sky, J. Oswald, F. Karel, O. Majlingova, D. Tischler, The Role of Recombination Processes in Seebeck Effect-Application of Gurevich Theory [1] on Cd(1-x)Zn(x)Te, Proceedings of 23rd International Conference on Thermoelectrics, IEEE, Adelaide, Australia, 25–29 July, 2004, #101, 2005.
70. Y. G. Gurevich, G. G. de La Cruz, G. N. Logvinov, J. L. Cuevas, Effective Thermal Conductivity of Two-Layer Structures, Proceedings of the Thermal Conductivity 26, Thermal Expansion 14, DEStech Publications, Inc., Cambridge, Massachusetts, USA, August 6–8, 2001, p.279–288, 2005.

71. Yu. G. Gurevich, G. N. Logvinov, Linear Theory of Thermoelectric Cooling, Proceedings ICT'05 (24th International Conference on Thermoelectrics), IEEE Catalog Number 05TH8854, Clemson, South Carolina, USA, 19–23 June, 2005, p.465–468.
72. Yu. G. Gurevich, J. E. Velazquez-Perez, G. N. Logvinov, G. Espejo-Lopez, Non-Equilibrium Carriers and Thermo-E. M. F. in Bipolar Semiconductors, Proceedings of the 4th European Conference on Thermoelectrics, Cardiff, UK, 9–11 April 2006, p. 17–21.
73. Yu. G. Gurevich, J. E. Velazquez-Perez, Transport of Non-Equilibrium Charge Carriers in Bipolar Semiconductor Materials, Proceedings of the 25th International Conference on Microelectronics (MIEL 2006), IEEE Catalog No. 06TH8868, Belgrade, Serbia and Montenegro, 14–17 May, 2006, Vol. 1, p. 337–340.
74. Yu. G. Gurevich, I. M. Lashkevich, G. N. Logvinov, Minimal Temperature of Thermoelectric Cooling: Adiabatic Approximation, Proceedings of the Twenty-Fifth International Conference on Thermoelectrics, IEEE Catalog Number 06TH8931, Vienna, Austria, August 6–10, 2006, p. 260–263.
75. Yu. G. Gurevich, J. E. Velazquez-Lopez, O. Yu. Titov, Space Charge and Transport of Nonequilibrium Carriers in Bipolar Semiconductors, Proceedings of the 3rd International Conference on Electrical and Electronics Engineering, Veracruz, Mexico, September 6–8, 2006, p.305–308.
76. Yu. G. Gurevich, O. Yu. Titov, G. N. Logvinov, J. E. Velazquez-Perez, Kinetic Approach to Heating of the Electrons and Phonons in Semiconductors, Proceedings of the 3rd International Conference on Electrical and Electronics Engineering, Veracruz, Mexico, September 6–8, 2006, p. 309–312.
77. Yu. G. Gurevich, G. N. Logvinov, Current Instabilities under Millimeter and Submillimeter Electromagnetic Waves Heating in Semiconductors with Negative Differential Conductivity, Proceedings of the 6-th International Kharkov Symposium on Physics and Engineering of Microwaves, Millimeter and Sub-Millimeter Waves, IEEE Catalog Number 07EX1786, Kharkov, Ukraine, June 25–30, 2007, Vol. 1,p.345–347.
78. Yu. G. Gurevich, G. N. Logvinov, O. A. Fragoso, J. L. del Rio V., Lowest Temperature at Thermoelectric Cooling, Proceedings of the 4th International Conference on Electrical and Electronics Engineering, Mexico City, Mexico, September 5–7, 2007, IEEE Catalog Number: 07EX1762C, p.369–372.
79. I. N. Volovichev, J. E. Velazquez-Perez, Yu. G. Gurevich, New Boundary Conditions for the Study of Charge Transport in Solid-State Devices, Proceedings of the 26th International Conference on Microelectronics, Nis,

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CGLF07, 8 citation

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80. Yu. G. Gurevich, Novel Approach for Thermoelectricity, Articles Proceeding of the 6th European Conference on Thermoelectrics, Paris, France, July 2–4, 2008, p. O-08-1–O-08-4. CG08,1 citation
81. I. Lashkevych, O. Angeles Fragoso, Yu. G. Gurevich, Enfriamiento Termoelectrico en Peliculas Delgadas, Proceedings of the 6 Congreso Internacional en Innovacion y Desarrollo Tecnologico, Cuernavaca, Mexico, 8 al 10 de Octubre, 2008. CLAG08,1 citation
82. J. E. Velazquez-Perez, Yuri G. Gurevich, Current-Voltage Characteristic of a p-n Junction: Problems and Solutions, Proceedings of the 27th International Conference on Microelectronics, Nis, Serbia, 16–19 May, 2010, IEEE Catalog No. CFP 10432-PRT, p. 91–94.
83. J. E. Velazquez-Perez, Yuri G. Gurevich, Transport and Recombination in Solar Cells, New Boundary Conditions and Perspectives, Proceedings of the 25th European Photovoltaic Solar Energy Conference and Exhibition/ 5th World Conference on Photovoltaic Energy Convercion, Valencia, Spain, 6–10 September, 2010, p.539–544. CVG10,2 citation
84. J. E. Velazquez-Perez, Yuri G. Gurevich, The Role of Non-Equilibrium Charge Carriers in Thermoelectric Cooling, Proceedings of the 8th European Conference on Thermoelectrics, Como, Italy, September 22–24,2010, p. 70–74.
85. I. Lashkevych, Yu. G. Gurevich, Temperature Distribution in a p-n Structure: Electrical Current Quadratic Approximation, Proceedings of the IV International Conference on Surfaces, Materials and Vacuum, Puerto Vallarte, Mexico, 26–30 September, 2011, p. 49–50.
86. S. Molina-Valdovinos, Yu. G. Gurevich, Magnetoresistance Effect in Nonequilibrium Bipolar Semiconductor, Proceedings of the IV International Conference on Surfaces, Materials and Vacuum, Puerto Vallarte, Mexico, 26–30 September, 2011, p. 51.
87. Yu. G. Gurevich, I. Lashkevych, Transport of Heat and Electricity in p-n Semiconductor Structures, Proceedings of the 9th International Conference on Electrical Engineering, Computing Science and Automatic Control, Mexico City, Mexico, September 26–28, 2012, p. 418–421. CGL12,1 citation
88. G. Gonzalez de la Cruz, Yu. Gurevich, Heat Transfer in Two-Layered Systems Excited by a Pulsed Laser, Proceedings of the V International Conference on Surfaces, Materials and Vacuum, Tuxtla Gutierrez, Chis., Mexico, 24–28 September, 2012, p. 160.

89. G. Gurevich, I. Lashkevych, Fluxes and Sources of Fluxes of Energy, Heat, and Diffusion Heat in Semiconductors, Proceedings of the V International Conference on Surfaces, Materials and Vacuum, Tuxtla Gutierrez, Chis., Mexico, 24–28 September, 2012, p. 47–48.
90. Igor Lashkevych, Yuri G. Gurevich, Influence of Recombination on the Energy and Heat Balance Equations for a Bipolar Semiconductor, Proceedings of the 10th International Conference on Electrical Engineering, Computing Science and Automatic Control, Mexico D. F., Mexico, September 30–October 4, 2013, p. 431–434.
91. Yu. G. Gurevich, Igor Lashkevich, Influence of Recombination on the Thermal Conduction in Bipolar Semiconductors and Semiconductor Structures, Proceedings of the 10th International Conference on Heat Transfer, Fluid Mechanics and Thermodynamics, Orlando, Florida, USA, 14–16 July, 2014, p. 1447–1452.
92. Yu. G. Gurevich, Igor Lashkevych, Influence of Nonequilibrium Temperature and Charge Carriers on the Ohm's Law in a Bipolar Semiconductor, Proceedings of the 11 International Conference on Electrical Engineering, Computing Science and Automatic Control, Ciudad del Carmen, Campeche, Mexico, September 29–October 3, 2014, p. 418–421.
93. Igor Volovichev, Yuri Gurevich, New about the Solar Cells, Proceedings of the VIII International Conference on Surfaces, Materials and Vacuum, Puebla, Mexico, September 21–25, 2015, p. 294.
94. Andrey Meriuts, Yuri Gurevich, Nonlinear Current–Voltage Characteristics of a Semiconductor Barrierless Structure, Proceedings of the VIII International Conference on Surfaces, Materials and Vacuum, Puebla, Mexico, September 21–25, 2015, p. 315.
95. Enrique Velazquez-Perez, Oleg Titov, Yuri Gurevich, Thermoelectric Cooling in Bipolar Semiconductor Structures, Proceedings of the VIII International Conference on Surfaces, Materials and Vacuum, Puebla, Mexico, September 21–25, 2015, p. 316.
96. Igor Lashkevych, Yuri G. Gurevich, Electrical Resistance of a Bipolar Semiconductor in a Linear Ohm Law, Proceedings of the VIII International Conference on Surfaces, Materials and Vacuum, Puebla, Mexico, September 21–25, 2015, p. 317–318.
97. Jose Luis Salazar Laureles, Yuri G. Gurevich, The Influence of the Recombination on the Energy Flux Density in Semiconductor Structures, Proceedings of the VIII International Conference on Surfaces, Materials and Vacuum, Puebla, Mexico, September 21–25, 2015, p.330.
98. Yuri Gurevich, Igor Lashkevich, Brief Overview of Electrons Cooling in p–n Structure under Thermoelectric Phenomenon, Proceedings of the 12th

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International Conference on Electrical Engineering, Computing Science and Automatic Control, Mexico City, Mexico, October 28–30, 2015, p. 521–526.

99. Igor Volovichev, Oleg Titov, Yuri Gurevich, Photovoltaic Effect in Unipolar Semiconductors, Proceedings of the IX International Conference on Surface, Materials and Vacuum, Mazatlán, Sinaloa, México, September 26-30, 2016, p. 363.
100. Oleg Titov, Yuri Gurevich, Nature of the Thermoelectric Power in Bipolar Semiconductors, Proceedings of the IX International Conference on Surface, Materials and Vacuum, Mazatlán, Sinaloa, México, September 26-30, 2016, p. 416.
101. Sergio Molina Valdovinos, Yuri Gurevich, Nonlinear Charge Transport in Bipolar Semiconductors due to Electron Heating, Proceedings of the IX International Conference on Surface, Materials and Vacuum, Mazatlán, Sinaloa, México, September 26-30, 2016, p. 417.
102. Chetzyl Ballardo Rodriguez, Brahim El Filali, Oleg Titov, Yuri Gurevich, Energy Non-equilibrium, Recombination, Quasi-neutrality, and Transport Phenomena in Bipolar Semiconductor, Proceedings of the XI International Conference on Surfaces, Materials and Vacuum, Playa del Carmen, Quintana Roo, México, September 24 -28, 2018, p. 445.
103. Yuri G. Gurevich, Igor Lashkevych, Viktor Matsyuk, Review of Thomson Heat, Proceedings of the 9 European Conference on Renewable Energy Systems (ECRES 2021), Istanbul, Turkey, 21-23 April, 2021, p. 220-223.

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20 Lectures by Invitations

1. Primer Seminario de Fisica y Matematicas, La Escuela Superior de Matematicas N0. 2, de la Universidad Autonoma de Guerrero, 21 de Febrero, 2023.
2. Comunidad Estudiantil de Fisica de Tabasco, Mexico, 13 de Julio de 2020
3. Instituto Politécnico Nacional, Escuela Superior de Física y Matemáticas, La Sección de Estudios e Investigación de la ESFM, Del Seminario de Termodinámica y Sistemas Complejos, México, CDME, 14 de Marzo, 2019.
4. Universidad Autonoma Metropolitana, Ciclo de Seminarios de los Alumnos de la Licenciatura en Fisica, Departamento de Fisica, Mexico D. F., 2 de Julio, 2015.
5. Universidad Autonoma de Zacatecas "Francisco Garcia Salinas", La Unidad Academica de Fisica, Zacatecas, Mexico, 05 de Junio, 2014.

6. Instituto Politecnico Nacional, Centro de Estudios Cientificos y Tecnologicos "Carlos Vallejo Marquez", 18-a Semana de la Ciencia y Tecnologia, Mexico D. F., Mexico, 24 de Octubre de 2011.
7. Instituto Politecnico Nacional, Centro de Estudios Cientificos y Tecnologicos "Carlos Vallejo Marquez", 18-a Semana de la Ciencia y Tecnologia, Mexico D. F., Mexico, 26 de Octubre de 2011.
8. El Centro Nacional de Metrologia, Seminario de Metrologia Electrica, El Marques, Queretaro, Mexico, 11 de Marzo, 2009
9. Instituto Mexicano del Petroleo, Seminario del Programa de Ingenieria Molecular, Mexico D. F., Mexico, 26 de Febrero de 2009.
10. XII International Forum on Thermoelectricity, Chernivtsi, Ukraine, 15–20 July, 2007.
11. CINVESTAV–I. P. N., Depto. de Fisica, 4ra. Escuela de Materia Condensada para Estudiantes de Licenciatura, 19–21 de Julio, 2006.
12. CINVESTAV–I. P. N., Depto. de Fisica, 3ra. Escuela de Materia Condensada para Estudiantes de Licenciatura –SFES, 21–23 de Julio, 2004.
13. CINVESTAV–I. P. N., Depto. de Fisica, 2da. Escuela de Materia Condensada para Estudiantes de Licenciatura –SFES, 9–11 de Julio, 2003.
14. CINVESTAV–I. P. N., Depto. de Fisica, Escuela de Verano Jovenes Investigadores, Mexico D. F., Mexico, 4–5 de Abril, 2002.
15. Universidad de las Americas Puebla, Sexto Ciclo de Conferencias de Fisica y Matematicas, Puebla, Mexico, 12 de Febrero, 2002.
16. CINVESTAV–I. P. N., Unidad Queretaro, Queretaro, Qro., Mexico, Seminario, 25 April, 2001.
17. Ist International Workshop on Matematical Modeling of Physical Processes in Inhomogeneous Media, Guanajuato, Mexico, 20–22 March 2001.
18. Universidad Nacional de Colombia, Facultad de Ciencias, Departamento de Fisica, Santafe de Bogota, Colombia, Seminario, 23 January, 2001.
19. Univercidad de los Andes, Departamento de Fisica, Colombia, Coloquio de Fisica, 29 January, 2001.
20. Universidad Nacional de Colombia, Facultad de Ciencias, Departamento de Fisica, Santafe de Bogota, Colombia, Seminario, 30 January, 2001.
21. Centro de Investigacion en Energia, UNAM, Seminario del Departamento de Termociencias, Temixco, Morelos, Mexico, 20 Septiembre, 2000
22. Fifth European Workshop on Thermoelectirc, Pardubice–Lazne Bohdanec, Czech Republic, September 20–21th, 1999 (2 lectures).

23. Energy Conversion Devices, Inc. Troy, Michigan, USA, June, 15, 1999.
24. 28th Winter School on Molecular and Quantum Acoustics and 4th Workshop on Photoacoustics and Photothermics, Ustron-Beskidy Mountains, Gliwice, Poland, 22.02–26.02 1999 (2 lectures).
25. Universidad Nacional de Colombia, Facultad de Ciencias, Departamento de Fisica, Santafe de Bogota, Colombia, Seminario, 3 Febrero, 1999.
26. El Instituto de Fisica de la Universidad Autonoma de Puebla, Seminario, 24 Octubre, 1997.
27. Czech Technical University, Faculty of Engineering, Physics Department, Praha, Czech Republic, 31 August, 1997.
28. Technion–Israel Institute of Technology, Solid State Institute, Haifa, Israel, 4 October, 1996.
29. Bar–Ilan University, Department of Physics, Ramat–Gan, Israel, 2 October, 1996.
30. Ben–Gurion University of the Negev, Materials Engineering Department, Beer–Sheva, Israel, 30 September, 1996.
31. Ben–Gurion University of the Negev, Department of Physics, Beer–Sheva, Israel, 26 September, 1996.
32. VII International School on Thermoelectricity, Kiev, Ukraine, 9–14 September, 1996.
33. Energy Conversion Devices, Inc., Troy, Michigan, USA, 12 April, 1996.
34. Laboratorio de Investigacion en Materiales, CINVESTAV–I.P.N., Queretaro, Seminario, 26 February, 1996.
35. El Instituto de Fisica—a la Universidad Autonoma de San Luis Potosi, Seminario Fisica del Estado Solido, 23 February, 1995
36. El Instituto de Fisica de la Universidad Autonoma de Puebla, Seminario, 10 February, 1995
37. 4th International Workshop on Thermal Field Theories and their Applications [Thermo–95], Dalian, P. R. China, 7–12 August, 1995.
38. Research Workshop on Condensed Matter Physics (Group on Semiconductor Physics), International Centre for Theoretical Physics, Trieste, Italy, July 16–August 13, 1995.
39. Semiconductor Department, ICUAP BUAP, Salon de Clases de la Maestria en Dispositivos Semiconductores , 9 June, 1994
40. Teachers Training Institute, Ternopil, Ukraine, April–May, 1993.

41. III All-Union Workshop “Interaction of the Electromagnetic Waves with Semiconductors,” Saratov, Russia, 2–8 September, 1991.
42. V All-Union Workshop-Seminar on the Thermoelectricity, Chernovtsy, Ukraine, 10–13 September, 1990.
43. Workshop of the Scientific Board “Thermoelectric Materials and its Applications,” Vinnitsa, Ukraine, 21–22 December, 1989.
44. Nakhichevan University, Nakhichevan, Azerbaijan, November 1988.
45. II All-Union Workshop “Interaction of the Electromagnetic waves with Semiconductors,” Saratov, Russia, 3–9 September, 1988.
46. Teachers Training Institute, Ternopil, Ukraine, April–May, 1988.
47. Ukrainian Workshop-Seminar “Mathematical Methods in Electrodynamics,” Alushta, Ukraine, 7–17 April, 1988.
48. VI All-Union Workshop-Seminar on the Surface Semiconductors Physics, Odessa, Ukraine, 8–17 September, 1987.
49. Fergana University, Fergana, Uzbekistan, October–November, 1986.
50. I All-Union Workshop “Interaction of the Electromagnetic Waves with Semiconductors and Semiconductor-Dielectric Structures,” Saratov, Russia, 1–7 September, 1985.
51. Fergana University, Fergana, Uzbekistan, October–November, 1984.
52. III All-Union Telavy Workshop-Seminar “Nonequilibrium Quasiparticles in Solid State,” Batumi, Georgia, 30 September – 7 October, 1984.
53. V All-Union Workshop-Seminar on the Hot Electrons in Semiconductors, Kanev, Ukraine, 15–22 May, 1983.
54. Workshop of Young Scientists “Actual Problems of Semiconductor Physics,” Fergana, Uzbekistan, 26–30 June, 1982.
55. VI Ukrainian Workshop “Actual Problems of Semiconductors Physics,” Odessa, Ukraine, 7–16 September, 1981.
56. II All-Union Telavy Workshop-Seminar “Nonequilibrium Quasiparticles in Solid State,” Gory, Georgia, 24–31 October, 1979.
57. I All-Union Telavy Workshop-Seminar “Nonequilibrium Quasiparticles in Solid State,” Telavy, Georgia, 14–19 November, 1977.
58. Summer Ukrainian Workshop on the Semiconductor Physics, Drogobich, Ukraine, 20–28 August, 1969.

21 Conferences

21.1 Invited Talks on the Conferences

1. Special Summer School Nanotechnology and Entrepreneurship, Ivano-Frankivsk, Ukraine, October, 09-14, 2023.
2. XIX INTERNATIONAL FREIK CONFERENCE ON PHYSICS AND TECHNOLOGY OF THIN FILMS AND NANOSYSTEMS, Ivano-Frankivsk, Ukraine, October, 09-14, 2023,
3. International Conference and Expo on Condensed Matter Physics, Rome, Italy, September 21-23, 2023.
4. International Forum on Condensed Matter Physics, Porto, Portugal, 06-08 February, 2023.
5. XVIII International Forum on Thermoelectricity, Chernivtsi, Ukraine, October 26-30, 2020.
6. X International School on Thermoelectricity, Chernivtsi, Ukraine, September 11-14, 2019.
7. International Scientific and Practical Conference Training Future Teachers of Physics, Chemistry, Biology and Natural Sciences in the Context of the Requirements of the New Ukrainian School, Ternopil, Ukraine, May 20-21, 2019
8. XVII International Forum on Thermoelectricity, Belfast, Great Britain, May 15-18, 2017
9. VI Taller de Metamateriales, Cristales Fotónicos, Cristales Fonónicos y Estructuras Plasmónicas, San Miguel de Allende, Gto., Mexico, Enero 11-14, 2015.
10. International Workshop on Interaction of Light with Matter, Mexico D. F., Mexico, October 16-17, 2014.
11. Invited Talk, XXIII International Materials Research Congress, Cancun, Mexico, 17-22 August, 2014.
12. Plenary Lecture, VI International Conference on Surfaces, Materials and Vacuum, Merida, Yucatan, Mexico, September 23-27, 2013
13. XXII International Materials Research Congress, Symposium 3B, Renewable Energy and Sustainable Development, Cancun, Mexico, August 11-15, 2013
14. XV International Forum on Thermoelectricity, Tallinn, Estonia, May 20-24, 2013.

15. VII School on Thermoelectricity, Yaremcha, Ukraine, July 15–20, 2012.
16. VI Congreso Internacional de Ingeniería Física, Mexico D. F., Mexico, 13 a 15 de Junio, 2012.
17. XIII International Conference on Physics and Technology of Thin Films and Nanosystems, Ivano-Frankivsk, Ukraine, 16–21, May, 2011.
18. XII International Conference on Physics and Technology of Thin Films and Nanosystems, Ivano-Frankivsk, Ukraine, 18–23, May, 2009, p. 26–27.
19. XIII International Forum on Thermoelectricity, Kiev, Ukraine, 10.02–13.02, 2009.
20. XVI International Materials Research Congress, Cancun, Mexico, October 28–November 1, 2007.
21. IV Congreso Internacional de Ingeniería Física, Mexico City, Mexico, 15–19 Octubre, 2007.
22. XXVII Congreso Nacional, Sociedad Mexicana de Ciencia y Tecnología de Superficies y Materiales, Simposium "Semiconductores", Oaxaca, Mexico, 24–28 de Septiembre, 2007.
23. Plenary Sessions, Advanced Summer School of Physics 2007, Physics Department, CINVESTAV, Mexico City, Mexico, July 9–13, 2007.
24. Plenary Sessions, XI International Conference on the Physics and Technology of Thin Films and Nanosystems, Ivano-Frankivsk, Ukraine, May 7–12, 2007.
25. Plenary Sessions, X International Conference on the Physics and Technology of Thin Films (ICPTTF-X), Ivano-Frankivsk, Ukraine, May 15–22, 2005.
26. XXV Congreso Nacional, Sociedad Mexicana de Ciencia y Tecnología de Superficies y Materiales, Zacatecas, Zac, Mexico, del 26 al 30 de Septiembre, 2005.
27. International Symposium "Photons and Phonons in Solids", Puebla, Mexico, January 27–28, 2005.
28. CAP/CASCA/COMP/BSC Congress (Canadian Association of Physicists Congress), Winnipeg, Canada, June 13–16, 2004.
29. Plenary Lecture, Joint Conferences ASCOMS 2004, TELEINFO 2004, AEE 2004, MCP 2004 and ICAP 2004 (6th WSEAS International Conference on Algorithms, Science Computing, Modeling & Simulation; 6th WSEAS International Conference on Telecommunications and Informatics; 3rd WSEAS International Conference on Applications of Electrical Engineering; 6th WSEAS International Conference on Mathematics and

Computers in Physics; 6th WSEAS International Conference on Applied Physics, Cancun, Mexico, May 12–15, 2004

30. XXIII Congreso Nacional, Sociedad Mexicana de Ciencia de Superficies y Vacío A. C., Huatulco, Oaxaca, Mexico, 29 de Septiembre al 2 de Octubre, 2003
31. IX International Conference on Physics and Technology of Thin Films, Ivano-Frankivsk, Ukraine, May, 2003.
32. XVI Simposio Latinoamericano de Física del Estado Sólido, Merida, Venezuela, December 2002
33. X International Forum on Thermoelectricity, Chernovtsy, Ukraine, September 2002.
34. XXII Congreso Nacional, Sociedad Mexicana de Ciencia de Superficies y Vacío, Veracruz, Mexico, September, 2002
35. VIII International Conference on the Physics and Technology of Thin Films, Ivano-Frankivsk, Ukraine, May 2001.
36. 2nd International Smakula Symposium "Fundamental and Applied Problems of Modern Physics", Ternopil, Ukraine, September, 2000.
37. 15th Latin American Symposium on Solid State Physics, Cartagena de Indias, Colombia, November 1–5, 1999.
38. VII International Conference of Physics and Technology of Thin Films", Ivano-Frankivsk Ukraine, October, 1999.
39. Third International School–Conference "Physical Problems in Material Science of Semiconductors", Chernivtsi, Ukraine, 7–11 September, 1999.
40. IX Congreso Latinoamericano de Ciencias de Superficies y Sus Aplicaciones (CLACSA-9), La Habana, Cuba, 5–9 de Julio de 1999.
41. 25th International Thermal Conductivity Conference and 13th International Thermal Expansion Symposium, Ann Arbor, Michigan, USA, June 13–16, 1999.
42. XVIII Congreso Nacional de la Sociedad Mexicana de Ciencia de Superficies y Vacío, Puerto Vallarta, Jalisco, Mexico, 28 de Septiembre al 1 de Octubre 1998.
43. 21st International Conference on Microelectronics, Nis, Yugoslavia, 15–17 September, 1997.
44. Second International School-Conference on Physical Problems in Material Science of Semiconductors, Chernovtsy, Ukraine, 8–12 September, 1997.

45. VI International Conference in Physics and Technology of Thin Films, Ivano-Frankovsk, Ukraine, 26–31 May, 1997.
46. Scientific Seminar Dedicated to 90 Anniversary of the Prof. A. G. Samoylovich, Chernivtsi, Ukraine, 11–12 December, 1996.
47. V International Seminar "Thermoelectrics and Applications", Sankt-Petersburg, Russia, 19–20 November, 1996.
48. International School–Conference on Physical Problems in Material Science of Semiconductors [PPMSS'95], Chernivtsi, Ukraine, 11–16 September, 1995.
49. 9-UFSP (9th Symposium on Ultrafast Phenomena in Semiconductors), Vilnius, Lithuania, September 5–7, 1995.
50. IV International Conference "Physics and Technology of the Thin Films," Ivano-Frankovsk, Ukraine, 1993.
51. III All-Union Conference "Physics and Technology of the Thin Semiconductor Films," Ivano-Frankovsk, Ukraine, 1990.
52. IX Ukrainian Seminar "Physics and Technology of the Thin Films (Mathematical Simulation)," Ivano-Frankovsk, Ukraine, 1988.
53. All-Union Conference "Thin Films Thermoelectric Convertors and Devices," Moscow, Russia, 1988.
54. VII Ukrainian Seminar "Physics and Technology of the Thin Films," Ivano-Frankovsk, Ukraine, 1985.
55. II All-Union Conference "Physics and Technology of the Thin Films (Problems)," Ivano-Frankovsk, Ukraine, 1984.
56. Session of the Scientific Council of the Academy of Science of the Ukraine "Direct Conversion of the Heat Energy into Electric," Ternopol, Ukraine, 1983.
57. V Ukrainian Seminar "Physics and Technology of the Thin Films," Ivano-Frankovsk, Ukraine, 1983.
58. IV Ukrainian Seminar "Physics and Technology of the Thin Films (Applications)," Ivano-Frankovsk, Ukraine, 1982.
59. I All-Union Conference "Physics and Technology of the Thin Films (Transport Phenomenas)," Ivano-Frankovsk, Ukraine, 1981.
60. II Ukrainian Seminar "Physics of Thin Films," Ivano-Frankovsk, Ukraine, 1980.
61. Ukrainian Conference "Structure and Physics Properties of the Thin Films," Uzhgorod, Ukraine, 1977.

62. All-Union Conference “Inhomogeneous Heating of the Carriers under Electric Field in Semiconductors,” Leningrad, Russia, 1975.
63. VIII All-Union Conference Theory of the Semiconductors, Kiev, Ukraine, 1975.
64. X All-Union Conference on the Propagation of the Radiowaves, Irkutsk, Russia, 1972.
65. Symposium on Plasma Physics and Electrical Instabilities in Solids, Vilnius, Lithuania, 1971.
66. All-Union Seminar “Study of the Propagation of the Electromagnetic Waves in Solid State Plasmas,” Kiev, Ukraine, 1970.
67. All-Union Conference “Semiconductor Physics in Strong Electric and Magnetic Fields,” Chernovtsy, Ukraine, 1970.

21.2 Participation in the Conferences

1. F. G. Bass, Yu. G. Gurevich, Heating of the Electrons in Semiconductor by High-Frequency Field and Connecting Effects, Proceedings of the VII All-Union Conference on the Theory of Semiconductors, Tartu, Estonia, Tartu University Press, 1966, p. 24–26 [in Russian]. C66
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