

CURRICULUM VITAE• **Personal Details**

Name	Mark Auslender
Date and place of birth	April 12, 1950, Sverdlovsk, USSR
Date of immigration	January 19, 1991
Regular military service	No
Address and telephone number at work	Department of Electrical and Computer Engineering, Ben-Gurion University of the Negev, POB 653, Beer Sheva; Tel. 08-6461583
Address and telephone number at home	Zeev Zhabotinsky 25/17, 84412 Beer Sheva; Tel. 077-3272041

• **Education**

- B.Sc. - 1967 – 1970 - Ural State University - Physics
- M.Sc. - 1970 – 1972 - Ural State University - Physics
 Advisor - Prof. V.P. Kalashnikov
 Title of thesis - Some problems in Non-equilibrium statistical operator method
- Ph.D. - 1974 – 1977 - Institute of Metal Physics Ural Branch of USSR Academy of Sciences - Theoretical Physics.
 Advisors - USSR Academy Member S.V. Vonsovsky, Prof. V.P. Kalashnikov
 Title of thesis - Generating functional method for non-equilibrium quasi-particles in solids.

• **Employment History** (in reverse chronological order, including sabbatical leave)

At Electrical and Computer Engineering Department, BGU:

2010 – Present, **Adjunct Full Professor**

1998 – Present, Grade-A Researcher, Kameya

1991 – 1998, Researcher, Gileadi Program

1993 – 2010, External Associate Professor

At Institute of Metal Physics, Ural Branch of USSR Academy of Sciences

1983 – 1990, Senior Researcher (Tenured)

1975 – 1983, Junior Researcher (Tenured).

- **Professional Activities** (in reverse chronological order)

- (a) Professional functions outside universities/institutions

- Referee in OSA, SPIE and Elsevier Physics journals, 1996 – present

- (b) Significant professional consulting

- 2001 – 2004 - GWS Photonics LTD – Gratings

- 1998 – 2000 - Nova-Measurement Instruments LTD – Gratings

- 2010 – 2012 - Nova-Measurement Instruments LTD – EM theory

- (c) Membership in professional/scientific societies

- 2007 – Present - IEEE/IEEE Magnetics Society

- 1998 – Present - Optical Society of America (OSA)

- **Educational activities**

- (a) Courses taught (at BGU)

- Introduction to Computational Methods – Undergraduate -

- 1993 – 2007 – 1st and 2nd courses at Electrical and Computer Engineering

- 2002 – 2012 – a course specialized for Software Engineering students

- Introduction to Semiconductor Electronics Devices - Undergraduate -

- 1998 – 1999 – a teaching assistance and lecturing in summer semesters

- Advanced Topics in Electromagnetism - Graduate -

- 2011 – 2012 – at Electro-Optics Engineering Unit

- Advanced Computational Methods - Graduate, 2013 – now

- (b) Research students (graduated and current)

- Jointly with Prof. V.P. Kalashnikov (USSR):

- 1984 - Alexander Zolotovitskii (guiding)

- 1991 - Sergei Tretjakov (guiding)

- Jointly with Prof. S. Hava (Israel):

- 1997 - Eli Mordel - M.Sc. (guiding)

- 1997 - Tamar Mordel - M.Sc. (guiding)

- 1999 - David Levi - M.Sc. (guiding)

- 2004 - Nathan Pinhas – Ph.D. (guiding)

- 2010 - Moshe Zohar - M.Sc. (supervising)

- Started 2011 - Moshe Zohar - Ph.D. (supervising)

- Jointly with Prof. I. Abdulhalim

- 2009 - Olga Krasnikov - M.Sc. (supervising)

- 2012 - Alina Karbchevsky - Ph.D. (guiding).

- **Awards, Citations, Honors, Fellowships**

(a) Honors, Citation, Awards (including during studies)

1995 - MOST (Israel) - **Distinguished immigrant scientist**

03 1997 - ref. 42 cited by A. P. Ramirez, et al., NATURE vol. 386, 156

07 1997 - ref. 42 cited by A. P. Ramirez, et al., SCIENCE vol. 277, 546

Ref. 75 acquired above 110 citations

- **Patents**

1991 – N. N. Loshkareva, Yu. P. Sukhorukov, **M. I. Auslender**, N. G. Bebenin

“A method for determining of azimuth of linearly polarized radiation”

USSR (Certificate of invention No SU 1689808).

- **Research Grants**

(1) 1991 – 1994 - MOST - S. Hava (PI), **M. Auslender** (CI)

Subject – Thermal emission and EM absorption of silicon microstructures

3 years - Annual \$ 46,000 - Total \$ 138,000

(2) 1994 – 1995 - MOST - **M. Auslender** (PI)

Subject – Thermal radiation in microstructures, 1 year - Annual \$ 24,000.

(3) 1999 – 2002 - ISF (Israeli Academia) - E. Kogan, M. Kaveh (PIs, Bar Ilan), **M. Auslender** (CI)

Subject – Extended and localized states of carriers in colossal magneto-resistance materials, 3 years - Annual \$ 46,000 - Total \$ 138,000

(4) 16.09 – 15.10, 2006; 16.09 – 15.10, 2008 - European Union Fund EuroMagNET - **M. Auslender** (Visitor of Theoretical Solid State Group at Radboud University of Nijmegen, Netherlands)

Subjects - New approach to electrical transport properties of graphene (one-layer carbon); Scattering of current carriers by charged impurities in graphene.

(5) 2008 – 2011 - MAFAT (MOD, Israel) - E. Paperno (Head of project), E. Liverts & **M. Auslender** (PIs)

Subject – Constructing a low-frequency magnetometer,

3 years - Total 1.5 000 000 NIS

(6) 2010 – 2012 – MAGNETON BGU-RAMPTA (MIT, Israel) - E. Paperno (Head of Project), E. Liverts & **M. Auslender** (PIs)

Subject – A miniaturized non consuming magnetic sensor,

3 years – 3.5 000 000 NIS

• **Synopsis of research, including reference to publications and grants**

✓ *Rigorous (full-vector) electromagnetic theory*

- Physical optics effects in diffraction gratings

Publication refs: lists (a, b) 57, 59 – 70, 73, 74, 76, 77, 82; (c) 5, 9, 10, 12, 13, 15–17

- Development of software tools for simulations/design of gratings

Publication refs: lists (a, b) 57, 60, 64, 66, 69; (c) 2–4, 6–8, 11–14

Grants nos. (1), (2)

- Gratings and multilayer as optical sensors and detectors

Publication refs: lists (a, b) 92, 98, 100, 110, 124; (c) 18–20

✓ *Physics of graphene (one/few layer/s carbon)*

Publication refs: lists (a, b) 94

Grants nos. (4)

✓ *Physics of giant/colossal magneto-resistance (GMR/CMR) materials:*

- Magnetic semiconductors and metals

Publication refs: lists (a, b) 14 – 21, 26 – 51, 71, 101, 102, 114; (d) 24, 27

- Rare-earth manganese oxides

Publication refs: lists (a, b), 86, 87, 90, 91, 95 – 97, 99, 103 – 113, 115, 116, 118, 121 – 123, 125 – 128

Grants nos. (3)

✓ *Magneto-electric effect in magnetostrictive/piezoelectric laminates*

Publication refs: lists (a, b), 109, 139

Grants nos. (5), (6)

✓ *Statistical mechanics (strongly correlated solid state and magnetism)*

Publication refs: lists (a, b) 1 – 13, 17, 22 – 25, 42, 72, 78, 80, 81, 83, 85, 88, 89; 111; (c, d) 18, 21

Grants nos. (3)

✓ *Coherence and fluctuations of EM radiation in microstructures and disordered media*

Publication refs: lists (a, b) 55, 65; (c) 13

Grants nos. (1), (2)

✓ *Conventional semiconductors (optical and transport phenomena)*

Publication refs: lists (a, b) 52 – 56, 58; (c) 1, 17, 19, 20; (d) 25, 26

• **Research in progress**

(1) *Kinetic equation for charge carriers in graphene: Charged impurity scattering*

Other participants: M. Katsnelson (Radboud University, Nijmegen)

(2) *Grating multilayer: 2D and 3D surface relief and material fillings.*

Other participants: S. Hava and M. Zohar (Ben Gurion University, Israel).

- (3) *Thin-film based photo-detectors for mid IR and visible: Using near-field optics and nanostructures for size reduction and detection enhancement*

Other participants: S. Hava and M. Zohar (Ben Gurion University, Israel)

• **Scientific Publications**

(a) Peer reviewed refereed articles and letters in scientific journals

1. V.P. Kalashnikov, **M.I. Auslender**, (1974) “Generating functional in classical statistical mechanics of non-ideal gas,” [English translation] Soviet Phys. - Doklady (USA) **19**, 193-196.
2. **M.I. Auslender** (1974), “Motion quasi-invariants and existence of ε -limit in non-equilibrium statistical operator method,” [English translation] Theoretical Math. Phys. (USA) **21**, 1198-1207 (JCR-03 IF: 0.729).
3. V.P. Kalashnikov, **M.I. Auslender** (1975) “Generating functional in non-equilibrium statistical mechanics of non-ideal Fermi gas,” [English translation] Theoretical Math. Phys. (USA) **22**, 32-44 (JCR-03 IF: 0.729).
4. **M.I. Auslender**, V.P. Kalashnikov (1975), “Generating functional for non-equilibrium system of electrons and phonons,” [English translation] Theoretical Math. Phys. (USA) **25**, 1193-200 (JCR-03 IF: 0.729).
5. V.P. Kalashnikov, **M.I. Auslender** (1976), “Derivation of classical Markovian kinetic equations via generating functional technique,” Physica A **85**, 71-83 (IF-1.441, IF-5: 1.434).
6. V.P. Kalashnikov, **M.I. Auslender** (1977), “Macroscopic equations of magnetic dynamics: I. Linear non-equilibrium processes,” Fiz. Met. Metalloved. (USSR) **44**, 710-726.
7. **M.I. Auslender** (1977), “Application of the generating functional method to the kinetics of dilute magnetic alloys,” Fiz. Met. Metalloved. (USSR) **43**, 204-206.
8. **M.I. Auslender**, V.P. Kalashnikov (1978), “Macroscopic equations of magnetic dynamics: II. Ferromagnetic in strong alternate magnetic field,” Fiz. Met. Metalloved. (USSR) **46**, 35-44.
9. **M.I. Auslender**, A.B. Zolotovitskii (1979), “Critical dynamics of impurity spin in ferromagnetic above T_C ,” [English translation] Theoretical Math. Phys. (USA) **38**, 279-284 (JCR-03, IF: 0.729).
10. **M.I. Auslender**, A.B. Zolotovitskii (1979), “Critical dynamics of impure spin in the Heisenberg ferromagnetic below T_C ,” [English translation] Theoretical Math. Phys. (USA) **40**, 746-749 (JCR-03, IF: 0.729).
11. **M.I. Auslender**, I.I. Lyapilin (1979), “Removing of logarithmic divergence for EPR line width in quantizing magnetic fields,” Ukrainian Phys. J. **24**, 1845-1850.
12. V.P. Kalashnikov, **M.I. Auslender** (1979), “Generating functional in non-equilibrium statistical mechanics,” (**Invited Review**) Fortschr. Phys. [English translation] **27**, 355-402 (IF-5: 0.928).
13. V.P. Kalashnikov, **M.I. Auslender** (1980), “Longitudinal static spin susceptibility of the Heisenberg ferromagnet at $T \leq T_C$,” Physica A **100**, 443-451 (IF-1.441, IF-5: 1.434).
14. **M.I. Auslender**, M.I. Katsnelson (1980), “Interaction between conduction electron and critical spin fluctuations in the framework of the s-d model of magnetic semiconductor:

- Free energy estimation and static conductivity,” [English translation] Theoretical Math. Phys. (USA) **43**, 450-457 (JCR-03, IF: 0.729).
15. V.P. Kalashnikov, **M.I. Auslender**, V.V. Karyagin (1981),” Thermoelectric coefficients of a ferromagnetic metal near Curie point,” Fiz. Met. Metalloved. (USSR) **50**, 688-695.
 16. **M.I. Auslender**, M.I. Katsnelson (1981), “Magnetic susceptibility of spin-polaron states in the s-f exchange model above Curie temperature,” J. Magn. Magn. Mater. **24**, 117-124 (IF-5: 1.342).
 17. V.P. Kalashnikov, **M.I. Auslender**, N.G. Bebenin (1981), “Macroscopic equations of magnetic dynamics: IV. s-d model far from equilibrium,” Fiz. Met. Metalloved. (USSR) **51**, 52-63.
 18. **M.I. Auslender**, N.G. Bebenin (1981), “Heating of localized spins in magnetic semiconductors at paramagnetic state,” Phys. Lett. A **81**, 297-299 (IF-5: 1.961).
 19. V.P. Kalashnikov, **M.I. Auslender**, V.V. Karyagin (1981), “Contribution of heat flux of localized spins to the thermo-power of ferromagnetic semiconductor in the paramagnetic phase,” Phys. Lett. A **87**, 64-66 (IF-5: 1.961).
 20. **M.I. Auslender**, N.G. Bebenin, V.P. Kalashnikov, A.B. Zolotovitski (1982), “On the density of states of the broad band ferromagnetic semiconductor at $T \geq T_C$,” Phys. Stat. Solidi (b) **110**, 369-377 (IF-5: 1.058).
 21. **M.I. Auslender**, N.G. Bebenin, V.P. Kalashnikov (1982), “The asymptotic of the electron density of states in the s-f exchange model of ferromagnetic semiconductor near T_C ,” Phys. Stat. Solidi (b) **114**, K147-K152 (IF-5: 1.058).
 22. V.P. Kalashnikov, **M.I. Auslender**, A.B. Zolotovitskii (1982), “Frequencies and relaxation rates of acoustic magnons in multi-component spin systems at low temperatures,” [English translation] Theoretical Math. Phys. (USA) **51**, 388-393 (JCR-03, IF: 0.729).
 23. **M.I. Auslender**, M.I. Katsnelson (1982), “Asymptotic behavior of the density of states of electrons interacting with critical fluctuations of the order parameter,” [English translation] Soviet Phys.-Doklady (USA) **27**, 562-564.
 24. **M.I. Auslender**, M.I. Katsnelson (1982), “Effective spin Hamiltonian and phase separation instability of the almost half-filled Hubbard model and narrow-band s-f model,” Solid State Commun. **44**, 387-539 (IF-5: 1.632).
 25. **M.I. Auslender**, M.I. Katsnelson (1982), “Effective spin Hamiltonian approach to phase separation in Hubbard model and narrow-band s-f model,” [English translation] Theoretical Math. Phys. (USA) **51**, 436-444 (JCR-03, IF: 0.729).
 26. **M.I. Auslender**, M.I. Katsnelson, V.Yu. Irkhin (1983), “s-f scattering in ferromagnetic semiconductors at low temperatures,” Physica B **119**, 309-320 (JCR-03, IF: 0.908).
 27. **M.I. Auslender**, V.Yu. Irkhin, M.I. Katsnelson (1984), “Electron states in the s-f model of ferromagnetic semiconductors in the spin-wave region,” J. Phys. -Cond. Matt. **17**, 669-681 (IF-5: 2.062).
 28. **M.I. Auslender**, V.Yu. Irkhin (1984), “The spin polarization of conduction electrons in ferromagnetic semiconductors,” Solid State Commun. **50**, 1003-1005 (IF-5: 1.632).
 29. **M.I. Auslender**, V.Yu. Irkhin, (1984) “Spin waves in degenerate ferromagnetic semiconductors at low temperatures,” Zeitschrift fur Physik B **56**, 301-306.

30. V.P. Kalashnikov, **M.I. Auslender** (1984), "The equivalence of two forms of non-equilibrium statistical operator," [English translation] *Theoretical Math. Phys. (USA)* **58**, 196-202 (JCR-03, IF: 0.729).
31. **M.I. Auslender**, V.V. Karyagin, A.B. Zolotovskii, V.P. Kalashnikov, B.A. Gizhevskii (1984), "Longitudinal Nernst-Ettinshausen effect in heavily doped EuO," *Phys. Stat. Solidi (b)* **121**, 737-742 (IF-5: 1.058).
32. **M.I. Auslender**, V.Yu. Irkhin (1985), "Electron states in the s-f model of ferromagnetic semiconductors in the spin-wave region. II. Degenerate semiconductors," *J. Phys. -Cond. Matt.* **18**, 3533-3545 (IF-5: 2.062).
33. **M.I. Auslender**, V.Yu. Irkhin (1985), "Density of states and tunneling phenomena in degenerate ferromagnetic semiconductors," *Solid State Commun.* **56**, 701-703 (IF-5: 1.632).
34. **M.I. Auslender**, V.Yu. Irkhin (1985), "The damping of spin waves in dirty ferromagnets due to electron-magnon interaction," *Zeitschrift fur Physik B* **61**, 129-134.
35. **M.I. Auslender**, L.D. Finkelshtein, N.N. Efremova (1986), "The effects of the d-f exchange interaction on X-ray L_{III} spectra of rare-earth compounds," [English translation] *Soviet Phys.-Solid State (USA)* **28**, 552-557 (JCR-03, IF: 0.746).
36. A.A. Samokhvalov, N.N. Loshkaryova, Yu.P. Sukhorukov, T.I. Arbuzova, **M.I. Auslender** (1986), "Anomalies in impurity optical absorption in magnetic semiconductor $CdCr_2Se_4$," [English translation] *Soviet Phys.-JETP (USA)* **91**, 307-310 (JCR-03, IF: 1.156).
37. **M.I. Auslender**, N.A. Viglin (1987), "Electron paramagnetic resonance in doped EuO," *Soviet Phys.-JETP* **92**, 118 -125 (JCR-03, IF: 1.156).
38. **M.I. Auslender**, I.I. Lyapilin, A.B. Zolotovskii, (1988) "Acceptor bound magnetic polaron in a cubic semimagnetic semiconductor," *Solid State Commun.* **67**, 535-539 (IF-5: 1.632).
39. **M.I. Auslender**, V.Yu. Irkhin, M.I. Katsnelson (1988), "Itinerant electron magnetism in narrow energy bands," *J. Phys. -Cond. Matt.* **21**, 5521-5538 (IF-5: 2.062).
40. **M.I. Auslender**, V.Yu. Irkhin, M.I. Katsnelson (1988), "Conduction electron magnetism in a narrow band," *Fiz. Met. Metalloved. (USSR)* **65**, 57-65.
41. E.M. Kogan, **M.I. Auslender** (1988), "Metal-to-insulator transition in ferromagnets with narrow conduction bands: Anderson localization due to fluctuations of magnetic order," *Fiz. Met. Metalloved. (USSR)* **66**, 430-435.
42. E.M. Kogan, **M.I. Auslender** (1988), "Anderson localization in ferromagnetic semiconductors due to spin disorder. I. Narrow conduction band," *Phys. Stat. Solidi (b)* **147**, 613-620 (IF-5: 1.058).
43. **M.I. Auslender**, E.M. Kogan, S.V. Tretjakov (1988), "Anderson localization in ferromagnetic semiconductors due to spin disorder. II. Wide conduction band," *Phys. Stat. Solidi (b)* **148**, 289-295 (IF-5: 1.058).
44. **M.I. Auslender**, N.G. Bebenin (1988), "Characteristics of the energy band structure and absorption near the fundamental absorption band edge of ferromagnetic semiconductors $CdCr_2Se_4$ and $HgCr_2Se_4$," [English translation] *Soviet Phys. -Solid State (USA)* **30**, 549-552 (JCR-03, IF: 0.746).

45. **M.I. Auslender**, A.A Samokhvalov, N.I. Solin, I.Yu. Shumilov (1988), "Cherenkov interaction of spin waves with charge carriers in ferromagnetic semiconductor HgCr_2Se_4 ," Soviet Phys. -JETP **67**, 2516-2521 (JCR-03, IF: 1.156).
46. **M.I. Auslender**, N.G. Bebenin (1989), "On the band structure and anisotropy of transport properties of ferromagnetic semiconductors CdCr_2Se_4 and HgCr_2Se_4 ," Solid State Commun. **69**, 761-764 (IF-5: 1.632).
47. **M.I. Auslender**, E.V. Barsukova, N.G. Bebenin, B.A. Gizhevski, N.N. Loshkaryova, Yu.P. Sukhorukov, N.M. Chebotaev (1989), "Absorption spectrum of n- and p-type single crystals of ferromagnetic semiconductor HgCr_2Se_4 in a magnetic field," [English translation] Soviet Phys.-JETP (USA) **68**, 139-142 (JCR-03, IF: 1.156).
48. N.I. Solin, **M.I. Auslender**, I.Yu. Shumilov, A.A Samokhvalov (1990), "New mechanism of Cherenkov amplification of spin waves by drifting carriers in ferromagnetic semiconductors," [English translation] Soviet Phys. -Solid State (USA) **32**, 1301-1305 (JCR-03, IF: 0.746).
49. **M.I. Auslender**, N.G. Bebenin (1990), "Theory of piezoresistance of ferromagnetic p-type semiconductors HgCr_2Se_4 and CdCr_2Se_4 ," [English translation] Soviet Phys.-Semicond. (USA) **24**, 738-741 (JCR-03, IF: 0.643).
50. V.A. Kostylev, B.A. Gizhevski, A.A. Samokhvalov, **M.I. Auslender**, N.G. Bebenin (1990), "Anisotropy of magnetoresistance of p-type ferromagnetic semiconductor HgCr_2Se_4 ," Phys. Stat. Solidi (b) **158**, 307-317 (IF-5: 1.058).
51. **M.I. Auslender**, L.D. Falkovskaya (1991), "Magnetoelectric damping of low-frequency spin waves in an easy-plane antiferromagnetic semiconductor: feasibility of Cherenkov amplification by drifting carriers in EuTe ," [English translation] Soviet Phys. -Solid State (USA) **33**, 477-480 (JCR-03, IF: 0.746).
52. **M. Auslender**, S. Hava (1992), "Free carrier contribution to dynamic dielectric function of heavily doped semiconductors: Application to n-type silicon," Phys. Stat. Sol. (b) **174**, 565 – 574 (IF-5: 1.058).
53. S. Hava, **M. Auslender** (1993), "Theoretical dependence of infrared absorption in bulk doped silicon on carrier concentration," Appl. Optics **32**, 1122-1125 (IF-5: 1.874).
54. **M. Auslender**, S. Hava (1993), "On the calculation of alloy scattering relaxation time for ternary III-V and II-VI semiconductors," Solid State Commun. **87**, 335 – 339 (IF-5: 1.632).
55. S. Hava, **M. Auslender** (1993), "Thermal radiation law for a small semiconductor body," J. Quant. Spectroscopy & Rad. Transfer **49**, 259-261 (IF-5: 1.906).
56. S. Hava, **M. Auslender** (1993), "Velocity-field relation in GaAlAs versus alloy composition," J. Appl. Phys **73**, 1- 4 (IF-5: 2.479).
57. S. Hava, **M. Auslender**, D. Rabinovich (1994), "Operator approach in electromagnetic coupled-wave calculations of lamellar gratings: Infrared optical properties of silicon gratings," Appl. Optics **33**, 4807-4813 (IF-5: 1.874).
58. N. Gluzman, **M. Auslender** (1994), "A method for the measurement of the thermal conductivity tensor in thin layers," Thin Solid Films **249** (2), 245-249 (IF-5: 1.942).
59. S. Hava, **M. Auslender**, B.M. Lacquet, P.J. Coetzer, P.L. Swart (1995), "IR transmission and reflection study of lamellar silicon grating-wafer structures," Infrared Phys. Technol. **36**, 639-647 (JCR-03, IF: 1.311).

60. S. Hava, **M. Auslender** (1995), "Silicon grating-based mirror for 1.3 μm polarized beams MATLAB - aided design," *Appl. Optics* **34**, 1053-1058 (IF-5: 1.874).
61. **M. Auslender**, S. Hava (1995), "Zero infrared reflectance anomaly in doped silicon gratings. I. From antireflection to total absorption," *Infrared Phys. Technol.* **36**, 1077-1088 (JCR-03, IF: 1.311).
62. **M. Auslender**, S. Hava, J.N. Zemel (1996), "Zero infrared reflectance anomaly in doped silicon gratings. II. Electric field amplitude distributions across the grating profile," *Infrared Phys. Technol.* **37**, 367-377 (JCR-03, IF: 1.311).
63. S. Hava, **M. Auslender**, J.N. Zemel (1996), "Zero infrared reflectance anomaly in doped silicon gratings. III. Electric field phase and energy flux distributions across the grating profile," *Infrared Phys. Technol.* **37**, 565-573 (JCR-03, IF: 1.311).
64. **M. Auslender**, S. Hava (1996), "Scattering-matrix propagation algorithm in full-vectorial optics of multilayer grating structures," *Opt. Lett.* **21**, 1765-1767 (IF-5: 3.803).
65. **M. Auslender** (1997), "Long-time asymptotic of temporal-spatial coherence function for light propagation through time-dependent disorder," *Phys. Lett. A* **228**, 187-194 (IF-5: 1.961).
66. **M. Auslender**, D. Levy, S. Hava (1998), "One-dimensional antireflection gratings in (100) silicon: a numerical study," *Appl. Optics* **37**, 369-373 (IF-5: 1.874).
67. S. Hava, J. Ivri, **M. Auslender**, B.M. Lacquet (1998), "Infrared transmission studies via lamellar gratings on Si wafer," *J. Appl. Phys.* **83**, 1654-1659 (IF-5: 2.479).
68. S. Hava, J. Ivry, **M. Auslender** (1998), "Transmission of polarized infrared radiation through lamellar gratings on a silicon wafer," *J. Appl. Phys.* **84**, 2236-2244 (IF-5: 2.479).
69. D. Gani, **M. Auslender**, S. Hava (1999), "Variable gratings for optical switching: rigorous electromagnetic simulation and design," *Opt. Eng.* **38**, 552-557 (IF-5: 0.867).
70. S. Hava, J. Ivri, **M. Auslender** (1999), "Reflection of infrared radiation from lamellar gratings on a silicon wafer," *J. Appl. Phys.* **85**, 7893-7898 (IF-5: 2.479).
71. E. Kogan, **M. Auslender**, M. Kaveh (1999), "Localization and de-phasing driven by magnetic fluctuations in low-carrier-density colossal magneto-resistance materials," *Eur. Phys. J. B* **9**, 373-376 (IF: 1.568, IF-5: 1.553).
72. O. Ciftija, M. Luban, **M. Auslender**, J. H. Luscomb (1999), "Equation of state and spin-correlation functions of ultra small classical Heisenberg magnet," *Phys. Rev. B* **60**, 10122-10133 (IF: 3.322, IF-5: 3.284).
73. S. Hava, **M. Auslender** (2000), "Design and analysis of low-reflection grating micro structures for a solar energy absorber," *Sol. Energy Mater. Sol. Cells* **61**, 143-151 (IF: 2.788, IF-5: 2.635).
74. S. Hava, **M. Auslender** (2000), "Groove depth dependence of IR transmission spectra through silicon gratings: experiment versus theory," *Infrared Phys. Technol.* **41**, 149-154 (JCR-03, IF: 1.311).
75. E. Rozenberg, **M. Auslender**, I. Felner, G. Gorodetsky (2000), "Low-temperature resistivity minimum in ceramic manganites," *J. Appl. Phys.* **88**, 2578-2582 (IF-5: 2.479).
76. S. Hava, **M. Auslender** (2001), "Optical scatterometry evaluation of groove depth in lamellar silicon grating structures," *Opt. Eng.* **40**, 1244-1248 (IF-5: 0.867).

77. S. Hava, J. Ivri, **M. Auslender** (2001), “Wave-number-modulated patterns of transmission through one- and two-dimensional gratings on a silicon substrate,” *J. Opt. A-Pure Appl. Opt.* **3**, S190-S195 (IF: 1.742, IF-5: 1.740).
78. **M. Auslender**, E. Kogan (2001), “CPA density of states and conductivity in a double-exchange system containing impurities,” *Eur. Phys. J. B* **19**, 525-529 (IF: 1.568, IF-5: 1.553).
79. **M. Auslender**, A.E. Kar’kin, E. Rozenberg, G. Gorodetsky (2001), “Low-temperature resistivity minima in single-crystalline and ceramic manganites: Mesoscopic transport and intergranular tunneling,” *J. Appl. Phys.* **89**, 6639-6641 (IF-5: 2.479).
80. **M. Auslender**, E. Kogan (2001), “Ferromagnetic transition in a double-exchange system with alloy disorder,” *Physica A* **302**, 345-358 (IF-1.441, IF-5: 1.434).
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Ben Gurion University of the Negev, Elect Comp Eng Dept

2. **M. Auslender** - 31 Oct. 1995

“Electromagnetic and thermal radiation emission in microstructures”

Ben Gurion University of the Negev, Elect Comp Eng Dept

EuroMagNET Fund at European Council

3. **M. Auslender** - Oct. 2006

“Using NSO technique in derivation of kinetic equations for current carriers in grahene”

Radboud University of Nijmegen (Netherlands), Theoretical Solid-State Group,

4. **M. Auslender** - Oct. 2008

“An approach to the problem of conductivity at neutrality point in grahene”

Radboud University of Nijmegen (Netherlands), Theoretical Solid-State Group,

• Lectures and Presentations at Meetings, and Seminars (not Followed by Published Proceedings)

(a) Invited plenary lectures at conferences/meetings/seminars

1. E. Kogan, **M. Auslender**, M. Kaveh (Dec. 1999): “Localization and dephasing driven by magnetic fluctuations in colossal magneto-resistance materials” at 45th IPS Meeting – Bar Ilan University, Ramat Gan, Abstract - Bull. Israel Phys. Soc. **45**, p. 5
2. A. Karabchevsky, O. Krasnykov, I. Abdulhalim, B. Hadad, A. Goldner, **M. Auslender**, S. Hava (Oct. 2008): “Nano-scale metallic grating based structures for sensor applications” at 1st Mediterranean Conference on Nanophotonics (MediNano-1) – Istanbul, Turkey. Publications list, part (b), ref. 124
3. **M. Auslender**, S. Hava (July 2011): “Optical properties of silica opal templates in the visible and infrared” at 19th International Conference on Composites/Nano Engineering – Shanghai, China. Publications list, part (c), ref. 23.
4. **M. Auslender** (Apr. 30, 2013): “Optical sensors based on surface and guided wave resonances” – 2 hours lecture at Department of Electrical and Electronics Engineering, University of Basque Country, Bilbao, Spain.
5. **M. Auslender**, E. Rozenberg, A. Shames, (July 2014) “Magnetic Resonance Studies of $\text{La}_{1-x}\text{Ca}_x\text{MnO}_3$: Nano versus Bulk” at 22nd International Conference on

Composites/Nano Engineering – Malta. Publications list, parts (a, b), refs. 93, 95, 97, 107, 119, 122, 131, 142.

6. **M. Auslender** (Aug. 27, 2014): “Optical sensing based on surface and guided EM wave resonances” – 1 hour lecture at Optoelectronics research center, University of Southampton, UK.

(b) Presentation of papers at conferences/meetings (oral or poster)

For refereed journals and proceedings, the titles are in the publications list, parts b, c.

7. **M.I. Auslender**, M.I. Katsnelson, S.V. Vonsovskii (oral, Sept. 1979) at International Conference on Magnetism - Munich, Germany, Publications list, part (b), ref. 101
8. S. Hava, **M. Auslender** (oral, Dec. 1992) at 9th Meeting on Optical Engineering in Israel – Tel Aviv, Publications list, part (c), ref. 1
9. S. Hava, **M. Auslender**, D. Rabinovich (poster, 1993): “The operator approach in electromagnetic coupled-wave calculations of lamellar gratings: application to silicon gratings” at 39th IPS Meeting - Tel Aviv. Abstract - Bull. Israel Phys. Soc. **39**, p. 139
10. **M. Auslender** (oral, 1993): “The asymptotic of the time intensity fluctuations for light reflected by point scatterers moving at random,” at 39th IPS Meeting – Tel Aviv. Abstract - Bull. Israel Phys. Soc. 39, p. 134.
11. **M. Auslender**, S. Hava (oral, June 1994): “Computer simulations of lamellar grating structures: silicon grating-waveguide spectral mirror and enhanced-absorption grating structures” at German- Israeli Symposium on Optical Signal and Image Processing – Herzliya.
12. A. Sharon, D. Rosenblatt, S. Glasberg, A. Friesem, H.G. Weber, H. Engle, R. Steingruber, **M. Auslender**, S. Hava (oral, Sept. 1995): “Resonant grating-waveguide structures for optical switching and tunable filters” at 2nd International Conference on Photo-Excited Processes and Applications – Jerusalem.
13. S. Hava, **M. Auslender** (oral, Feb. 1995) at SPIE Physics and Simulation of Optoelectronic Devices III – San Jose, CA, USA Publications list, part (c), ref. 2.
14. **M. Auslender**, S. Hava (oral, Feb. 1996) at SPIE Diffractive and Holographic Optics Technology III – San Jose, CA, USA Publications list, part (c), ref. 3.
15. E. Mordel, T. Mordel, **M. Auslender**, S. Hava (oral, Nov. 1996) at 19th IEEE Convention in Israel – Jerusalem. Publications list, part (c), ref. 4.
16. **M. Auslender**, D. Levy, S. Hava (oral, Feb. 1997) at SPIE Diffractive and Holographic Device Technologies and Applications IV – San Jose, CA, USA. Publications list, part (c), ref. 5.

17. **M. Auslender**, S. Hava, D. Levy (oral, March 1997) at 10th Meeting on Optical Engineering in Israel – Jerusalem. Publications list, part (c), ref. 6.
18. E. Mordel, T. Mordel, **M. Auslender**, S. Hava (poster, Feb. 1997) at SPIE Diffractive and Holographic Device Technologies and Applications IV – San Jose, CA, USA. Publications list, part (c), ref. 7.
19. **M. Auslender**, S. Hava, D. Levy (poster, Feb. 1997) at SPIE Diffractive and Holographic Device Technologies and Applications IV – San Jose, CA, USA. Publications list, part (c), ref. 8.
20. D. Gani, **M. Auslender**, S. Hava (oral, July 1998) at SPIE Current Developments in Optical Design and Engineering VII – San Diego, CA, USA. Publications list, part (c), ref. 9.
21. E. Kogan, **M. Auslender**, M. Kaveh (oral, June 1999) at International Seminar on Dynamics of Complex Systems Dresden, Germany. Publications list, part (b), ref. 102.
22. **M. I. Auslender**, E. Rozenberg, G. Gorodetsky (oral, Dec. 1999) at Symposium on Condensed Matter Physics - Jadavapur, India. Publications list, part (c), ref. 103.
23. **M. Auslender**, S. Hava (oral, Aug. 1999) at OSA Fourier Transform Spectroscopy Conference: New Methods and Applications – Santa Barbara, CA, USA. Publications list, part (c), ref. 10.
24. **M. Auslender**, S. Hava (poster, June, 2000): “On the correct use of plane-wave discretization in photonic structure simulations: Grating diffraction example” at NATO ASI Workshop on Photonic Crystals and Light Localization – Crete, Greece.
25. **M.I. Auslender**, E. Rozenberg, G. Gorodetsky (poster, July 2000) at 8th European Conference on Magnetic Materials and Applications – Kyiv, Ukraine . Publications list, part (b), ref.104.
26. **M. Auslender**, S. Hava (poster, May 2000) at OSA Diffractive Optics and Micro-Optics conference – Quebec City, Canada. Publications list, part (c), ref. 11.
27. **M. Auslender**, A.E. Kar’kin, E. Rozenberg, B.K. Chaudhury, G. Gorodetsky, (oral, Oct. 2000) at International Conference on Magnetic Materials – Calcutta, India. Publications list, part (b), ref.105.
28. **M. Auslender**, S. Hava (oral, Aug. 2001): “Variable microstructure gratings for optical switching: A case theoretical study” at 8th Annual International Conference on Composites Engineering – Tenerife, Spain. Abstract - Volume of abstracts, p. 47-48.
29. **M. Auslender**, A. Kar’kin, E. Rozenberg, G. Gorodetsky (oral, July 2002): “Low-temperature resistivity minimum in ceramic and single-crystalline perovskite

- manganites: Inter-grain tunneling vs. bulk Coulomb-interaction effect” at 9th Annual International Conference on Composites Engineering – San Diego, CA, USA. Abstract - Volume of abstracts, p. 33– 34.
30. S. Hava, J. Ivri, **M. Auslender** (poster, Aug 2002): “Wave-number-modulated patterns of transmission through photonic crystals on a silicon wafer” at EOS Topical Meeting on 2D Photonic Crystals – Ascona, Switzerland. Abstract - Volume of abstracts, # II-17.
 31. **M. Auslender**, E. Rozenberg, V. Markovich, G. Gorodetsky (poster, Aug. 2003) at International Conference on Magnetism (ICM-03) –Rome, Italy. Publications list, part (b), ref.106.
 32. **M. Auslender**, S. Hava, J. Ivri (poster, July 2003): “Polarization effects in diffraction from grating structures” at ICO Topical Meeting on Polarization Optics – Polvijarvi, Finland. Abstract - Volume of abstracts, p. 130.
 33. **M. Auslender**, S. Hava (oral, May 2003): “Diffraction of real beams by a multilayer grating structure” at Photonics North Conference on Applications of Photonic Technology – Montreal, Canada. Abstract - Volume of abstracts, code W-PM-S.
 34. N. Pinhas, **M. Auslender**, S. Hava (oral, Feb. 2004) at SPIE Photonic Crystal Materials and Devices II conference – San Jose, CA, USA. Publications list, part (c), ref.12.
 35. N. Pinhas, **M. Auslender**, S. Hava, A. Cohen-Nov (poster, 2004) at SPIE conference Photonic Crystal Materials and Devices II – San Jose, CA, USA. Publications list, part (c), ref.13.
 36. **M. Auslender**, A. Bergel, N. Pinhas, S. Hava (poster, Feb. 2004) at SPIE conference Physics and Simulation of Optoelectronic Devices XII – San Jose, CA, USA. Publications list, part (c), ref.14.
 37. **M. Auslender**, S. Hava (poster, Aug 2004) at IEEE/LEOS Numerical simulation of optoelectronic devices (NUSOD’04) conference – Santa Barbara, CA, USA. Publications list, part (c), ref.15.
 38. S. Hava, N. Pinhas, **M. Auslender**, A. Cohen-Nov (poster, Feb. 2004) at SPIE conference Smart Structures, Devices, and Systems II – San Jose, CA, USA. Publications list, part (c), ref.16.
 39. S.Hava, **M. Auslender** (oral, Dec 2004) at IEEE COMMAD’04 conference – Pert, Australia. Publications list, part (c), ref.17.
 40. **M. Auslender**, S. Hava, J. Ivry (poster, Apr. 2004): “IR Transmission and Reflection Allowed- and Stop-Bands in Synthetic Opals with Diamond Structure” at EOS

- Conference Optics in Computing – Engelberg, Switzerland. Abstract - Volume of abstracts, p.33.
41. A.I. Shames, E. Rozenberg, **M. Auslender**, G. Gorodetsky, C. Martin, A. Maignan (oral, Apr. 2005) at 21st International Meeting on Radio and Microwave Spectroscopy – Poznan, Poland. Publications list, part (b), ref.107.
 42. A.I. Shames, E. Rozenberg, **M. Auslender**, G. Gorodetsky, C. Martin, A. Maignan (poster, Nov. 2004) at 49th Annual Conference on Magnetism and Magnetic Materials (MMM-49) - Jacksonville, FL, USA. Publications list, part (b), ref.108.
 43. A.I. Shames, **M. Auslender**, E. Rozenberg, G. Gorodetsky, E. Sominski, A. Gedanken, Y.M. Mukovskii (oral, June 2005) at Moscow International Symposium on Magnetism (MISM-2005) – Moscow, Russia. Publications list, part (b), ref. 109.
 44. E. Rozenberg, A.I. Shames, **M. Auslender**, G. Gorodetsky, C. Martin, K.V. Glazyrin, Y.M. Mukovskii (poster, June 2005) at Moscow International Symposium on Magnetism (MISM-2005) – Moscow, Russia. Publications list, part (b), ref. 110.
 45. **M. Auslender**, E. Kogan (poster, July 2005) at International Conference on Strongly Correlated Electron Systems (SCES-05) – Vienna, Austria. Publications list, part (b), ref.111.
 46. E. Rozenberg, G. Jung, **M. Auslender**, G. Gorodetsky, I. Felner, E. Sominski, A. Gedanken, Y.M. Mukovskii (poster, Oct.-Nov. 2005) at 50th Conference on Magnetism and Magnetic Materials (MMM-50) – San Jose, CA, USA. Publications list, part (b), ref. 112.
 47. A.I. Shames, E. Rozenberg, **M. Auslender**, G. Gorodetsky, A. Yakubovsky, S. Gudenko, C. Martin, A Maignan (Nov. 2006) at 50th Conference on Magnetism and Magnetic Materials (MMM-50) – San Jose, CA, USA. Publications list, part (b), ref. 113.
 48. **M. Auslender** (oral # SS2.1, June 2006): “A magnetoelectric effect in low-carrier density colossal magnetoresistance materials” at CIMTEC-2006, Special Symposium on Spin Injection and Transport in Magneto-electronics – Acireale (Sicily), Italy. Abstract - Abstract book, p. 140. Publications list, part (b), ref.114.
 49. **M. Auslender**, A.I. Shames, E. Rozenberg G. Gorodetsky, S. Hebert, C. Martin (poster, Aug. 2006) at International Conference on Magnetism (ICM-06) – Kyoto, Japan. Publications list, part (b), ref.115.
 50. **M. Auslender**, S. Hava (poster, Oct. 2006): “Polarization and Geometrical Phase Properties of Coherent Beam Diffracted by Grating in Conical Mounting” EOS

- Topical Meeting on Micro-Optics and Diffractive Optics – Paris, France. Abstract - Abstract book, p.146-147.
51. A.I. Shames, **M. Auslender**, E. Rozenberg G. Gorodetsky, S. Hebert, C. Martin (poster, June 2006) at Joint European Magnetic Symposium (JEMS-06) – San Sebastian, Spain. Publications list, part (b), ref.116.
52. N. Pinhas, **M. Auslender**, S. Hava (poster, 2007) at Conference on Optoelectronics, Optical Society of Japan – Nara, Japan. Publications list, part (b), ref.117.
53. **M. Auslender**, A.I. Shames, E. Rozenberg, G. Gorodetsky, Y. M. Mukovskii (poster, Jan. 2007) at 10th Joint IEEE Magnetics Conference (INTERMAG)/MMM Conference – Baltimore, MD, USA. Publications list, part (b), ref.118.
54. **M. Auslender**, J. Ivry, N. Pinhas, S. Hava (oral, Dec. 2006): “Optical properties of silica opal templates in the infrared and visible” at 6th Israeli-French Workshop on Advances in Optical and Laser Materials: Crystalline, Amorphous, Photonic Crystals and Nano-Particles – Maale Ahamisha (near Jerusalem). Abstract - Abstract book, p. 42 – 43. Publications list, part (b), ref.119.
55. O. Aharon, **M. Auslender**, S. Hava (poster, Dec. 2006): “Polarization and geometrical phase properties of coherent beam diffracted by grating in conical mounting” at 6th Israeli-French Workshop on Advances in Optical and Laser Materials: Crystalline, Amorphous, Photonic Crystals and Nano-Particles – Maale Ahamisha (near Jerusalem).Abstract - Abstract book p. 100. Publications list, part (b), ref.130.
56. O. Aharon, **M. Auslender**, S. Hava (poster, March 2007): “Diffraction from photonic nano-structures: Reflection, polarization and intensity manipulation” at 11th Meeting on Optical Engineering and Science in Israel – Tel Aviv. Abstract - Abstracts booklet, Session 8. Publications list, part (b), ref.130.
57. **M. Auslender**, A. Shames, E. Rozenberg, G. Gorodetsky, Ya. M. Mukovskii (oral # MONOR06, Aug. 2007): “Ferromagnetic correlations and clustering in lanthanum deficient LaMnO₃ manganites: EMR probing” at 8th Latin American Workshop on Magnetism, Magnetic Materials and Applications (LAWM-8) – Rio de Janeiro, Brazil. Abstract - Abstracts book, p. 7. Publications list, part (b), refs. 99, 125, 138.
58. A.I. Shames, **M. Auslender**, E. Rozenberg, E. Sominski, A.Gedanken, Ya. M Mukovskii (poster, Nov., 2007) at 52nd Annual Conference on Magnetism and Magnetic Materials (MMM-52) -Tampa, FL, USA. Publications list, part (b), ref.121.

59. E. Rozenberg, **M. Auslender**, A. I. Shames, C. Martin, S. Hebert (poster, Nov., 2007) at 52nd Annual Conference on Magnetism and Magnetic Materials (MMM-52) –Tampa, FL, USA. Publications list, part (b), ref. 122
60. E. Rozenberg, **M. Auslender**, A. I. Shames, Ya. M. Mukovskii, E. Sominski, A. Gedanken (poster, May 2008) at IEEE INTERMAG-08 – Madrid, Spain. Publications list, part (b), ref. 123
61. I. Shames, **M. Auslender**, E. Rozenberg, Ya.M. Mukovskii, G. Gorodetsky (poster, May 2008) at IEEE INTERMAG-08 – Madrid, Spain. Publications list, part (b), ref. 125.
62. I. Abdulhalim, **M. Auslender**, S. Hava (oral, Aug 2008) at SPIE Optics and Photonics, Conference on Biosensing – San Diego, CA, USA. Publications list, part (c), ref. 18.
63. A. Lahav, **M. Auslender**, I. Abdulhalim (oral, Aug 2008) at SPIE Optics and Photonics, Conference on Nanostructured Thin Films – San Diego, CA, USA. Publications list, part (c), ref. 19
64. Z. Dashevsky, V. Kasiyan, G. Radovsky, E. Shufer, **M. Auslender** (oral, Aug. 2008) at 6th International Conference on Advanced Optical Materials and Devices (AOMD-6) – Riga Latvia. Publications list, part (c), ref. 20.
65. **M. Auslender**, E. Rozenberg, A. I. Shames, G. Gorodetsky, Ya. M. Mukovskii (poster, May 2009) at 11th Joint INTERMAG/MMM-09 – Sacramento, CA, USA. Publications list, part (b), ref. 126.
66. E. Rozenberg, **M. Auslender**, A. I. Shames, Ya. M. Mukovskii, E. Sominski, A. Gedanken (poster, May 2009) at 11th Joint INTERMAG/MMM-09 – Sacramento, CA, USA. Publications list, part (b), ref. 127.
67. **M. Auslender**, E. Rozenberg, A.I. Shames, G. Gorodetsky, Ya.M. Mukovskii (poster, May 2009) at 11th Joint INTERMAG/MMM-09 – Sacramento, CA, USA. Publications list, part (b), ref. 128.
68. **M. Auslender**, A.I. Shames and E. Rozenberg (oral, July 2009): “Paramagnetic spin dynamics in doped LaMnO₃: A model dynamical mean field theory of double exchange versus experiment” at International Conference on Magnetism (ICM-09) – Karlsruhe, Germany.

69. **M. Auslender**, S. Hava, N. Pinhas (oral, Oct. 2009): “Enhanced infrared transmission and thermal emission of periodic metal coated microstructures on GaAs substrate” at 2nd Mediterranean Conference on Nanophotonics (MediNano-2) – Athens, Greece.
70. E. Rozenberg, **M. Auslender**, A. I. Shames, D. Mogilyansky, I. Felner and Y. M. Mukovskii (oral, Nov. 2010): “Griffiths phase’ versus chemical disorder in doped manganites: $\text{La}_{0.9}\text{Sr}_{0.1}\text{MnO}_3$ crystal revisited” at 55th Annual Conference on Magnetism and Magnetic Materials (MMM-55) – Atlanta, GA USA: Conference planner, abstract ID: BB-01. Publications list, part (b), ref. 139.
71. **M. Auslender**, A. I. Shames, E. Rozenberg, I. Felner, D. Mogilyansky, A. Pestun, Y. M. Mukovskii (poster, Nov. 2010): “Doped electron localization: EPR probing of $\text{La}_{0.3}\text{Ca}_{0.7}\text{MnO}_3$ compound” at MMM-55 – Atlanta, GA USA: Conference planner, abstract ID: EW-05. Publications list, part (b), ref. 138.
72. M. Zohar, **M. Auslender**, L. Faraone, S. Hava (poster, Oct. 2010): “Grating mirror based high efficiency optical resonance cavity” at 3rd Mediterranean Conference on Nanophotonics (MediNano-3) – Belgrade, Serbia Book of abstracts, p. 69.
73. M. Zohar, **M. Auslender**, L. Faraone, S. Hava (poster, June 2010): “Grating mirror based high efficiency optical resonance cavity: Application to IR photodetectors” at OSA Optics and Photonics Congress on Optical Nanostructures for Photovoltaic (PV 2010) – Karlsruhe, Germany; Post-deadline abstracts booklet, p. 1. Publications list, parts (a, b) refs. 104, 144; (c) ref. 21.
74. M. Zohar, **M. Auslender**, S. Hava, L. Faraone (poster # MP1, Sept. 2011): “Resonance cavity enhanced mid-infrared photodetectors employing subwavelength grating,” at IEEE/LEOS Conference on Numerical simulation of optoelectronic devices (NUSOD’11) – Rome, Italy. Publications list, parts (a, b), refs. 104, 144; (c) ref. 22.
75. **M. Auslender**, A. I. Shames, E. Rozenberg (poster # HS-08, May 2012): “Influence of technologically driven disorder on spin dynamics in $\text{La}_{0.9}\text{Ca}_{0.1}\text{MnO}_3$ manganites in mid-to-far critical range” at IEEE INTERMAG-12 – Vancouver, Canada, Program booklet, p. 222. Publications list, part (b), ref. 142.
76. **M. Auslender**, E. Rozenberg, A. I. Shames, and Ya. M. Mukovski (poster # BS-06, Jan 2013): “Mechanisms of the electron paramagnetic resonance line broadening in

- $\text{La}_{1-x}\text{Ca}_x\text{MnO}_3$ ” at 12th Joint Annual MMM Conference – Chicago, Illinois USA. Program booklet, p. 84. Publications list, part (b), ref. 143.
77. **M. Auslender**, M. Katsnelson (oral, Sept 2012): “Impurity scattering limited quantum transport in monolayer graphene” at Graphene Nanoscience: from Dirac Physics to Applications (GRANADA’12). Granada, Spain.
78. M. Zohar, **M. Auslender**, L. Faraone, S. Hava (poster, Apr 2013) at Photonics, Plasmonics and Magneto-Optics: a part of ImagineNano Conference, Bilbao, Spain. Publications list, parts (a, b), refs. 104, 144; (c) ref. 22.
79. M. Zohar, **M. Auslender**, S. Hava (oral, Aug 2013): “Embedding grating mirror in resonant cavity-enhanced absorber structures for mid-infrared detectors applications” at Progress in Electromagnetic Research Symposium (PIERS) – Stockholm, Sweden. Program booklet, p. 34. Publications list, parts (a, b), refs. 104, 144; (c) ref. 22.
80. M. Zohar, M. Auslender, and S. Hava (poster, Aug 31 – Sep 04 2014) at Near-Field Optics, Nanophotonics and Related Techniques (NFO-13) Conference – Salt Lake City, Utah, USA. Publications list, part (a), ref. 110