

List of Publications

Oded Millo (5/2014)

Papers in refereed journals:

1. "Quantitative Determination of Atomic Concentration by Auger Electron Spectroscopy", Y. Goldstein, A. Many, O. Millo, S.Z. Weisz, and O. Resto, *J. Vac. Sci. Technol.* **A6**, 3130-3133 (1988).
2. "Quantitative Analysis of Adsorbed Layers by Auger Electron Spectroscopy", O. Millo, A. Many, and Y. Goldstein, *J. Vac. Sci. Technol.* **A7**, 2688-2694 (1989).
3. "Surface Plasmon Energy Shifts due to Submonolayer Molecular Adsorption on Silver and Aluminum", O. Millo, Y. Goldstein, A. Many, and J.I. Gersten, *Phys. Rev. B* **39**, 1006-1012 (1989).
4. "Resonant Enhancement of the Electron Energy-Loss Cross Section due to Excitation of Surface Plasmons", O. Millo, Y. Goldstein, A. Many, and J.I. Gersten, *Phys. Rev. B* **39**, 9937-9946 (1989).
5. "Auger Electron Spectroscopy of Adsorbed Layers - Quantitative Analysis", Y. Goldstein, O. Millo, and A. Many, *Vacuum* **41**, 1595-1597 (1990).
6. "Reduction of the Mesoscopic Conductance Fluctuation Amplitude in GaAs/AlGaAs Heterojunctions due to Spin-Orbit Scattering", O. Millo, S.J. Klepper, M.W. Keller, D.E. Prober, S. Xiong and A.D. Stone, *Phys. Rev. Lett.* **65**, 1494-1498 (1990).
7. "The Effect of Spin-Orbit Scattering and of Impurity Configuration on Universal Conductance Fluctuations", S.J. Klepper, O. Millo, S. Xiong, D.E. Prober, and R.N. Sachs, *Physica B* **165 & 166**, 861-862, (1990).
8. "Sensitivity of Conductance Fluctuations to the Addition of Single Elastic Scatterers in Mesoscopic GaAs/AlGaAs Heterostructures", S.J. Klepper, O. Millo, M.W. Keller, D.E. Prober, and R.N. Sacks, *Phys. Rev. B* **44**, 8380-8384 (1991).
9. "Magnetoresistance in a Chaotic Scattering Cavity with Tunable Electron Density", M.W. Keller, O. Millo, A. Mittal, D.E. Prober, and R.N. Sacks, *Surf. Sci.* **305**, 501-506 (1994).
10. "Single-Electron Tunneling Effects in Granular Metal Films", E. Bar-Sadeh, Y. Goldstein, C. Zhang, H. Deng, B. Abeles, and O. Millo, *Phys. Rev. B* **50** (rapid communications), R8961-R8964 (1994).
11. "Scanning Tunneling Microscopy Studies of Annealing of Gold Films", D. Porath, Y. Goldstein, A. Grayevsky, and O. Millo, *Surf. Sci.* **321**, 81-88 (1995).

12. "Low Temperature Scanning Tunneling Microscopy Studies of Granular Metal Films", E. Bar-Sadeh, Y. Goldstein, M. Wolovelsky, D. Porath, C. Zhang, H. Deng, B. Abeles, and O. Millo, *J. Vac. Sci. Technol. B* **13**, 1084-1088 (1995).
13. "Annealing Study of Gold Films Using Scanning Tunneling Microscopy ", D. Porath, E. Bar-Sadeh, Y. Goldstein, M. Wolovelsky, A. Grayevsky and O. Millo, *J. Vac. Sci. Technol. A* **13**, 1165-1170 (1995).
14. "Observation of Granularity in $\text{YNi}_2\text{B}_2\text{C}$ Superconductors Containing Normal Impurity Phases", E. Bar-Sadeh, I. Felner, U. Asaf, and O. Millo *Phys. Rev. B* **52**, 6734-6738 (1995).
15. "Computer Simulations and STM studies of Annealing of Gold Films", D. Porath, J.I. Gersten, and O. Millo, *J. Vac. Sci. and Technol. B* **14**, 30-37 (1996).
16. "Observation of an Interplay Between Single Electron Charging Effects and Superconductivity in $\text{YNi}_2\text{B}_2\text{C}$ ", E. Bar-Sadeh and O. Millo *Phys. Rev. B* **53**, 3482-3486 (1996).
17. "Coexistence of Magnetism and Superconductivity in $\text{R}_{1.4}\text{Ce}_{0.6}\text{RuSr}_2\text{Cu}_2\text{O}_{10-\delta}$ (RE=Gd and Eu)", I. Felner, U. Asaf, Y. Levy, and O. Millo, *Phys. Rev. B* **55**, R3374-R3377 (1997).
18. "Single Electron Tunneling and Level Spectroscopy of Isolated C_{60} molecules", D. Porath and O. Millo, *J. Appl. Phys.*, **81**, 2241-2244 (1997).
19. "Surface Electromigration and Self-Diffusion on Gold Films Studies by Scanning Tunneling Microscopy", N. Shimoni, M. Wolovelsky, O. Biham, and O. Millo, *Surf. Sci.* **380**, 100-104 (1997).
20. "Tunneling Spectroscopy of an Isolated C_{60} Molecule in the Presence of Charging Effects", D. Porath, Y. Levi, M. Tarabiah, and O. Millo, *Phys. Rev. B* **56**, 9829-9833 (1997).
21. "Spatially Resolved Spectroscopy of Superconducting Wires Containing Artificial Pinning Centers", Y. Levi, O. Millo, D.E. Prober, N.D. Rizzo and L.R. Motowidlo, *Appl. Phys. Lett.* **72**, 480-482 (1998).
22. "Cryogenic Scanning Tunneling Spectroscopy of Inhomogeneous Superconductors" O. Millo, Y. Levy, U. Asaf, and I. Felner, *J. Low Temp. Phys.* **106**, 417-422 (1997).
23. "Tunneling Spectroscopy of Quantized Two-Dimensional Electron Gas on ZnO Surface", M. Wolovelsky, Y. Goldstein and O. Millo, *Phys. Rev. B* **57**, 6274-6277 (1998).
24. "Current Induced Surface Dislocations on Gold Films", N. Shimoni, O. Biham, and O. Millo, *Surf. Sci. Lett.* **414**, L925-L931 (1998).

25. "STM Studies of the Superconductor Proximity Effect", Y. Levi, O. Millo, D.E. Prober, N.D. Rizzo and L.R. Motowidlo, *Phys. Rev. B* **58**, 15128-15134 (1998).
26. "Energy Level Tunneling Spectroscopy and Single Electron Charging in Individual CdSe Quantum Dots" B. Alpers, G. Hodes, I. Rubinstein, D. Porath and O. Millo, *Appl. Phys. Lett.* **75**, 1751-1753 (1999).
27. "Identification of Atomic-Like Electronic States in InAs Nanocrystal Quantum Dots", U. Banin, Y.W. Cao, D. Katz, and O. Millo, *Nature* **400**, 542-544 (1999).
28. "Tunneling Spectroscopy of Bound and Resonant States in Superconductor Proximity Structures", Y. Levi, O. Millo, D.E. Prober, N.D. Rizzo, and L.R. Motowidlo, *Appl. Surf. Sci.* **144-145**, 575-579 (1999).
29. "Electromigration Induced Flow of Islands and Voids on the Cu(001) Surface", H. Mehl, O. Biham, O. Millo, and M. Karimi, *Phys. Rev. B* **61**, 4975-4982 (1999).
30. "The Effect of Oxygen on the $\text{Eu}_{1.5}\text{Ce}_{0.5}\text{RuCu}_2\text{O}_{10-\delta}$ Magnetic Superconductor", I. Felner, U. Asaf, Y. Levi, and O. Millo, *Int. J. Modern Physics B* **13**, 3650-3654 (1999).
31. "Electromigration Induced Dynamics of Surface Dislocations and Atomic Steps", N. Shimoni, O. Biham, and O. Millo, *J. Vac. Sci. Technol. A* **17**, 1693-1695 (1999).
32. "Percolative Superconductor-to-Insulator Transition in $\text{Eu}_{1.5}\text{Ce}_{0.5}\text{NbCu}_2\text{O}_{10-\delta}$ ", Y. Levi, I. Felner, U. Asaf, and O. Millo, *Phys. Rev. B* **60**, R15059-R15062 (1999).
33. "Single Electron Tunneling Through Single InAs Nanocrystal Quantum Dots" O. Millo, D. Katz, Y.W. Cao, and U. Banin, *Phys. Rev. B* **61**, 16773-16777 (2000).
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35. "Size-Dependent Tunneling and Optical Spectroscopy of InAs Nanocrystals" O. Millo, D. Katz, Y.W. Cao, and U. Banin, *J. Low Temp. Phys.* **118**, 365-374 (2000).
36. "Step Dynamics and Terrace Width Distribution on the Surface of Flame Annealed Gold Films: The role of Step-Step Intercation", N. Shimoni, S. Ayal, and O. Millo, *Phys. Rev. B* **62**, 13147-13152 (2000).
37. "Effects of Doping on $\text{Eu}_{1.5}\text{Ce}_{0.5}\text{RuCu}_2\text{O}_{10-\delta}$: an STM Study", Y. Levi, I. Felner, U. Asaf, and O. Millo, *Physica B* **280**, 647-648 (2000).

38. "Evidence for Localized High T_C Superconducting Regions on the Surface of Na doped WO_3 ", Y. Levi, O. Millo, A. Sharoni, Tsabba, G. Leituss, and S. Reich, *Europhys. Lett.* **51**, 564-570 (2000).
39. "Localized High T_C Superconductivity on the Surface of Na doped WO_3 ", S. Reich, Tsabba, G. Leituss, Y. Levi, A. Sharoni, and O. Millo, *J. of Superconductivity* **13**, 855-861 (2000).
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41. "Tunneling and Optical Spectroscopy of InAs/CdSe Core/Shell Nanocrystals", O. Millo, D. Katz, Y.W. Cao, and U. Banin, *Phys. Stat. Solidi* **224**, 271-276 (2001).
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43. "Correlation of tunneling spectra with surface nano-morphology and doping in Thin $YBa_2Cu_3O_{7-\delta}$ films", A. Sharoni, G. Koren, and O. Millo, *Europhys. Lett.* **54**, 675-681 (2001).
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45. "Tunneling spectroscopy and magnetization measurements of the superconductor properties of MgB_2 ", A. Sharoni, I. Felner, and O. Millo, *Phys. Rev. B* **63**, R220508(1-4), (2001).
46. "Spatial variations of the superconductor gap structure in MgB_2/Al composite", A. Sharoni, S. Reich, and O. Millo, *J. Phys: Cond. Matt.* **13**, L503-L508 (2001).
47. "Local and macroscopic tunneling spectroscopy of $Y_{1-x}Ca_xBa_2Cu_3O_{7-\delta}$ films: evidence for a doping dependent is or id_{xy} component in the order parameter", A. Sharoni, O. Millo, A. Kohen, Y. Dagan, R. Beck, G. Deutscher, and G. Koren, *Phys. Rev. B* **65**, 134526(1-7) (2002).
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49. "Size dependent tunneling and optical spectroscopy of CdSe quantum rods", D. Katz, T. Wizansky, O. Millo, E. Rothenberg, T. Mokari and U. Banin, *Phys. Rev. Lett.* **89**, 86801(1-4) (2002).
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51. “Scanning tunneling spectroscopy of a-axis $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ films: k -selectivity and the shape of the superconductor gap”, A. Sharoni, O. Millo, G. Leibovitch, A. Kohen, R. Beck, G. Deutscher, and G. Koren, *Europhys. Lett.* **62**, 883-889 (2003). (paper selected for publication in the “Virtual Journal of Applications of Superconductivity”, 2003).
52. “Tunneling and percolation in metal-insulator composite materials”, D. Toker, D. Azulay, N. Shimoni, N. Shimoni, I. Balberg, and O. Millo, *Phys. Rev. B* **68**, R041403(1-4) (2003).
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54. “Manifestation of the Verwey transition in the tunneling spectra of magnetite nanocrystals”, P. Poddar, T. Fried, G. Markovich, A. Sharoni, D. Katz, T. Wizansky, and O. Millo, *Europhys. Lett.*, **64**, 83-88 (2003).
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59. “Transport and charging in single semiconductor nanocrystals”, E. Nachum, T. Mokari, A. Aharoni, U. Banin, N. Shimoni, and O. Millo, *Nanoletters* **4**, 103-108 (2004).
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61. “Tunneling and magnetic characteristics of superconducting ZrB_{12} single crystals”, M. Tsindlekht, G.I. Leviev, I. Asulin, A. Sharoni, I. Felner, O. Millo, Yu. Paderno, V. Filipov, and M. Belogolovskii, *Phys. Rev. B* **69**, 212508(1-4) (2004).

62. “Zero-dimensional and quasi one-dimensional effects in semiconductor nanorods”, D. Steiner, D. Katz, O. Millo, A. Aharoni, S.H. Kan, T. Mokari, and U. Banin, *Nanoletters* **4**, 1073-1077 (2004).
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64. “Current routes in hydrogenated microcrystalline silicon”, D. Azulay, I. Balberg, J.P. Conde, V. Chu, and O. Millo, *Phys. Rev. B* **71**, 113304 (2005).
65. “Transition from zero-dimensional to one-dimensional behavior in InAs and CdSe nanorods”, O. Millo, D. Steiner, D. Katz, A. Aharoni, S.H. Kan, T. Mokari, and U. Banin, *Physica E* **26**, 1-8 (2005).
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71. “Evidence for crossed Andreev reflections in bilayers of (100)YBa₂Cu₃O_{7-δ} and the itinerant ferromagnet SrRuO₃”, I. Asulin, O. Yuli, G. Koren, and O. Millo, *Phys. Rev. B* **74**, 092501 (2006).
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73. “Current routes in Polycrystalline CuInSe₂ and Cu(In,Ga)Se₂ films”, D. Azulay, O. Millo, I. Balberg, H.W. Schock, I. Visoly-Fisher, and D. Cahen, *Sol. Ener. Mat. Sol. Cells* **91**, 85-90 (2007).
74. “Scanning tunneling spectroscopy studies of the pseudo-gap and the x=1/8 anomaly in La_{2-x}Sr_xCuO₄”, O. Yuli, I. Asulin, G. Koren, and O. Millo, *Phys. Rev. B* **75**, 184521 (1-6) (2007).

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79. "Electronic level structure and self assembly of cross-linked semiconductor nanocrystal arrays", D. Steiner, D. Azulai, A. Aharoni, A. Salant, U. Banin, and O. Millo, Nanotechnology **19**, 65201 (2008).
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82. "T_c enhancement in bilayers of underdoped and overdoped La_{2-x}Sr_xCuO₄ films: The role of pairing and phase fluctuations", O. Yuli, I. Asulin, G. Koren, O. Millo, and D. Orgad, Phys. Rev. Lett. **101**, 057006 (2008).
83. " Determination of Band Offsets in Heterostructured Colloidal Nanorods Using Scanning Tunneling Spectroscopy ", D. Steiner, D. Dorfs, U. Banin, O. Millo, F. Della Sala, L. Manna, and O. Millo, Nano Letters **8**, 2954-2958 (2008).
84. "Scanning Tunneling spectroscopy of SmFeAsO_{0.85}: Possible evidence for *d*-wave order parameter symmetry", Oded Millo, Itay Asulin, Ofer Yuli, Israel Felner, Zhi-An Ren, Xiao-Li Shen, Guang-Can Che and Zhong-Xian Zhao, Phys. Rev. B **78**, 92505 (2008).
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88. "Microscopic and macroscopic manifestation of percolation transitions in a semiconductor composite", D. Azulay, O. Millo, E. Savir, V. Chu, J.P. Conde, and I. Balberg, Phys. Rev. B **80**, 245312 (2009).
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108. “Periodic negative differential conductance in a metallic nano-cage”, Y. Bekenstein, K. Vinokurov, T.J. Levy, E. Rabani, U. Banin, and O. Millo, *Phys. Rev. B* **86**, 085431 (2012).

109. “Electronic properties of hybrid Cu₂S/Ru semiconductor/metallic-cage nanoparticles”, Y. Bekenstein, K. Vinokurov, U. Banin, and O. Millo, *Nanotechnology* **23**, 505710 (2012).
110. “Superconductivity in sulfur-doped amorphous carbon films”, I. Felner, O. Wolf, and O. Millo, *Supercond Nov. Magn.* **26**, 511-514 (2013).
111. “Phototransport spectroscopy of ensembles of Si quantum dots”, O. Wolf, O. Millo, and I. Balberg, *J. Appl. Phys.* **113**, 144314 (2013).
112. “Phase-change plasmonics with colloidal germanium-telluride nanoparticles”, M. Polking, Y. Bekenstein, P.K. Jain, U. Banin, R. Ramesh, O. Millo, and A.P. Alivisatos, *Phys. Rev. Lett.* **111**, 037401 (2013).
113. “Doping and quantum confinement effects in Si nanocrystals: Scanning tunneling and optical spectroscopy studies”, O. Wolf, M. Dasog, Z. Yang, I. Balberg, J.G.C. Veinot, and O. Millo, *Nano Letters* **13**, 2516-2521 (2013).
114. “How to dope semiconductor nanocrystal”, Y. Amit, A. Faust, O. Millo, E. Rabani, A.I. Frenkel, U. Banin, *Electrochemical Society Transactions*, (2013).
115. “Signature of proximity induced triplet superconductivity in junctions of the topological insulator Bi₂Se₃ and the s-wave superconductor NbN”, G. Koren, T. Kirzhner, Y. Kalcheim, and O. Millo, *Europhys. Lett.* **103**, 67010 (2013).
116. “Thermal doping by vacancy formation in copper sulfide nanocrystal arrays”, Y. Bekenstein, K. Vinokurov, S. Keren-Zur, Y. Schilt, U. Raviv, O. Millo, and U. Banin, *Nano Lett.* **14**, 1349–1353 (2014).
117. “Effect of magnetization inhomogeneity on the proximity induced triplet superconducting order at ferromagnet/superconductor junctions”, Y. Kalcheim, T. Kirzhner, G. Koren, M. Eglimez, J.W.A. Robinson, M.A. Blamire, and O. Millo, *Phys. Rev B* **89**, 180506(R) (2014).
118. “The effect of Na-doping on the electronic properties of CuI_{n1-x}G_{ax}S_{e2} thin films: A local-probe study”, D. Azulay, I. Balberg, O. Millo, and D. Abou-Ras, *Appl. Phys. Lett.* (submitted, 2014).
119. “Quantum confinement effect on non-radiative recombination in Ge nanocrystals”, O. Wolf, I. Balberg, and O. Millo (submitted, 2014).
120. “Rhodium Growth on Cu₂S Nanocrystals Yielding Hybrid Nanoscale Inorganic Cages and Their Synergetic Properties”, K. Vinokurov, Y. Bekenstein, V. Gutkin, I. Popov, O. Millo, and U. Banin, *Cryst. Eng. Comm.* (submitted 2014).

Books, Chapters in books, Invited review papers

121. "*Hopping and Related Phenomena*", O. Millo and Z. Ovadyahu, Eds. (Rose, Jerusalem, 1995).
122. "Tunneling and optical spectroscopy of semiconductor nanocrystal quantum dots: Single particle and ensemble properties", U. Banin and O. Millo, in "*Semiconductor and Metal Nanocrystals*", V. Klimov, Ed. (Dekker, New York, 2004), pp. 289-323.
123. "Electrical Studies of Single Quantum Dots", O. Millo and U. Banin, Annual Review of Physical Chemistry 54, 465-492 (2003).
124. "Tunneling and optical spectroscopy of semiconductor nanocrystals", U. Banin and O. Millo, Invited book chapter in "*Nanoparticles from theory to applications*", G. Schmid, Ed. (Wiley-VCH, NY, 2004), pp. 305-322.
125. "Tunneling and percolation in composite materials", I. Balberg, D. Azulay, D. Toker, and O. Millo, Int. J. Mod. Phys. B 18, 2091-2121 (2004).
126. "What can Andreev bound states tell us about superconducting interfaces?", O. Millo and G. Koren, Philosophical Transactions of the Royal Society A, (2014).

Conference papers:

127. "The Effect of Elastic Scatterers on Mesoscopic Conductance Fluctuations in GaAs/AlGaAs Heterojunctions", S.J. Klepper, O. Millo, D.E. Prober, and R.N. Sacks, in *Granular Nanoelectronics*, Ed. D.K. Ferry (Plenum, New York, 1991) p. 519-524.
128. "Reduction of the Mesoscopic Conductance Fluctuation Amplitude in GaAs/AlGaAs Heterojunctions due to Spin-Orbit Scattering", M.W. Keller, O. Millo, S.J. Klepper, D.E. Prober, S. Xiong and A.D. Stone, in *Granular Nanoelectronics*, Ed. D.K. Ferry (Plenum, New York, 1991) p. 511-516.
129. "Conductance Fluctuations in Ballistic Microcavities", M.W. Keller, O. Millo, A. Mittal, D.E. Prober, and R.N. Sacks, Physica B **194-196**, 1029-1031, (1994).
130. "Granularity and Charging Effect in $\text{YNi}_2\text{B}_2\text{C}$ ", O. Millo and E. Bar-Sadeh, in *Hopping and Related Phenomena 6*, O. Millo and Z. Ovadyahu, Eds. (Rose, Jerusalem, 1995), p. 297-302.
131. "Local Transport Studies of Granular Metal Films", O. Millo and E. Bar-Sadeh, in *Hopping and Related Phenomena 6*, O. Millo and Z. Ovadyahu, Eds. (Rose, Jerusalem, 1995), p. 303-308.
132. "Proximity and Single Electron Charging Effects in Granular Superconductors", O. Millo and E. Bar-Sadeh, Czechoslovak J. Phys. **47**, 749-750 (1996).

133. “Resonant Tunneling Through Discrete Electronic Levels of a C_{60} Molecule”, O. Millo, Y. Levi, and D. Porath, *Acta Phys. Pol. A* **93**, 431-435 (1998).
134. “STM Studies of the Proximity Effect in Superconducting Wires with Artificial Pinning Centers”, Y. Levi, O. Millo, N.D. Rizzo, D.E. Prober, and L.R. Motowidlo, *Acta Phys. Pol. A* **93**, 425-429 (1998).
135. “Size Dependent Tunneling Spectroscopy of InAs Nanocrystals”, D. Katz, Y. Levi, U. Banin, Y.W. Cao, and O. Millo, *Physica B* **280**, 1760-1761 (2000).
136. “Tunneling and optical spectroscopy of CdSe nanorods”, D. Katz, T. Wizansky, O. Millo, E. Rothenberg, T. Mokari and U. Banin, *Proceedings of the 26th Conference on the Physics of Semiconductors* (2002).
137. “Size and shape dependence of the electronic states in CdSe quantum rods”, E. Rothenberg, T. Mokari, U. Banin, D. Katz, T. Wizansky, and O. Millo, *Mat. Res. Soc. Symp. Proc.* **737**, E17.1.1 (2002).
138. “Observation of the Verwey Transition in Fe_3O_4 Nanocrystals”, G. Markovich, T. Fried, P. Poddar, A. Sharoni, D. Katz, T. Wizansky, and O. Millo, *Mat. Res. Soc. Symp. Proc.* **746**, Q4.1, (2003).
139. “Local tunneling spectroscopy study of the proximity effect in gold coated $YBa_2Cu_3O_{7-\delta}$ ”, A. Sharoni, I. Asulin, G. Koren, and O. Millo, *Superconductor Science and Technology*, (in press, 2005).
140. “Where does the current flow in microcrystalline silicon”, I. Balberg, D. Azulay, O. Millo, Y. Dover, J. Conde and V. Chu, *Proc. of the 14th Int’l Conf. on Photovoltaic Science and Engineering, Bangkok, 2004* (Chulalongkorn University, Bangkok, 2004), pp. 1021-1022.
141. “Local probe investigations of current flow in microcrystalline silicon” D. Azulay, O. Millo, I. Balberg, J.P. Conde, and V. Chu, *Proceedings of the 12th Sede-Boqer Symposium on Solar Energy Production* (2004).
142. “The superconductor proximity effect in Au- $YBa_2Cu_3O_{7-\delta}$ bilayer films: The role of order parameter anisotropy” O. Millo, I. Asulin, A. Sharoni, O. Yuli, G. Koren, *Microelectronics Journal* **36**, 539–542, (2005).
143. “Scanning tunneling spectroscopy studies of the proximity effect in $YBa_2Cu_3O_{7-\delta}$ - $SrRuO_3$ superconductor-ferromagnet bilayers”, O. Millo, O. Yuli, G. Koren, and I. Asulin, “*Strongly Correlated Electron Materials*” *SPIE proceedings* **5932**, 5932-16 (2005).
144. “Local photoconductivity measurements of polycrystalline semiconductor films: The role of grain-boundaries”, D. Azulay, O. Millo, I. Balberg, and D. Cahen, *proceedings of the 13 Sede-Boqer Symposium on Solar Energy Production* (2006).

145. "Scanning tunneling spectroscopy of hybrid semiconductor nanocrystals: Level structure, band offsets and localized states", O. Millo, D. Steiner, U. Banin, F. Della Sala, and L. Manna, Proceedings of the IEEE Nano-(2009) meeting.
146. "Electrical Transport Study of Individually-Wired Colloidal Nano-Rods", H. Steinberg, D. Steiner, O. Wolf, A. Faust, Y. Lilach, A. Salant, G. Menagen, E. Elmelem, U. Banin and O. Millo, Proceedings of the IEEE Nano-(2009) meeting.
147. "Quantum Confinement Driven Anomalous Photovoltaic Effect in nanocrystalline Si Assemblies", I. Balberg, D. Azulay, H. Levi-Aharoni, S. Silbert, and O. Millo, Proc. of the 7th International Conference on Porous Semiconductors Science and Technology.
148. "Electronic properties of grain-boundaries in thin films $\text{CuI}_{n1-x}\text{GaxSe}_2$ ", D. Azulay, I. Balberg, O. Millo, Proceeding of the 18th Sdeh-Boqer meeting on solar energy production (2013).

Invited Lectures (some presented by my students):

1. "Auger Electron Spectroscopy for Quantitative Analysis", O. Millo, A. Many, and Y. Goldstien, 9th Israeli Vacuum Society Congress, Bar-Ilan University, April 1989.
2. "Scanning Tunneling Microscopy Studies of Metal and Granular Metal Films", Israeli-German Workshop on SPM, Technion, May 1994.
3. "Cryogenic STM Studies of Granular Normal and Superconductor Systems", Annual meeting of the IPS, Bar-Ilan U., April 1995.
4. "Localized Spectroscopy of Nanoparticle Metal and Superconductor Systems", ETOPIM4, Moscow, July 1996.
5. "Cryogenic Scanning Tunneling Spectroscopy of Inhomogeneous Superconductors", Weak Superconductivity Symposium, Bratislava, Slovakia, August 1996.
6. "STM studies and Computer Simulations of Surface Dynamics", Intel-Academy Workshop, Jerusalem, February 1998.
7. "Molecular and Superconductor Nanostructures", International Workshop on the Science and Technology of Nanostuctures, Weizmann Institute of Science, April 1998.
8. "STM Studies of Nanoparticles and Composite Superconductors", Joint Minerva-GIF Gentner Symposium: "From Elementary Particles to Complex Systems", Jerusalem, May 1998.
9. "Tunneling Spectroscopy of Semiconductor Nanoparticles", Intel-Academy Workshop, Haifa, December 1998.

10. "Nanometer Science with Scanning Tunneling Microscopy", *Joint India-Israel Physics Meeting on Trends in Condensed Matter Physics*, New-Delhi, India, January 1999.
11. "Direct Identification of Atomic-Like Electronic States in Semiconductor Nanocrystals", *The Annual Meeting of the Israeli Physical Society*, Tel Aviv University, March 1999.
12. "Direct Identification of Atomic-Like Electronic States in Semiconductor Nanocrystals", U. Banin and O. Millo, *Joint Meeting of German and Israeli Physical Chemistry Groups*, Jerusalem, February 1999. (presented by Banin).
13. "Tunneling and Optical Spectroscopy of InAs Nanocrystals", U. Banin and O. Millo, *Gordon Conference on Spectroscopy of Molecules and Nanostructures*, New London, July 1999. (presented by Banin).
14. "The effect of Oxygen on Superconductivity and Magnetism in $\text{Eu}_{1.5}\text{Ce}_{0.5}\text{RuCu}_2\text{O}_{10-\delta}$ ", I. Felner, U. Asaf, Y. Levi and O. Millo, *Applied Superconductivity*, Las Vegas, May 1999. (presented by Felner)
15. "Tunneling Spectroscopy of Semiconductor Nanocrystals", *Meeting of the Israel Vacuum Society*, November 1999.
16. "Optical and tunneling spectroscopy studies of InAs core/shell nanocrystals", U. Banin and O. Millo, *E.T.H. meeting*, Weizmann Institute of Science, February 2000. (presented by Banin).
17. "Size Dependent Tunneling Spectroscopy of Semiconductor Nanocrystals" *Transport in Mesoscopic Systems (Satellite of LT22)*, Goetborg, Sweden, August 1999.
18. "Optical and tunneling spectroscopy studies of InAs core/shell nanocrystals", *International Workshop on Nanoscale Science and Technology*, Zichron Ya'akov, May 2000.
19. "Tunneling Transport and Optical Properties of InAs/ZnSe core/shell nanocrystals", *Quantum Dots 2004*, Munich, Germany, July 2000.
20. "Tunneling Spectroscopy of Semiconductor and Superconductor Nanoparticles", *Israel-Japan Conference on Nanoparticles and Mesoscopic Physics*, Osaka, Japan, September 2000 (had to cancel due to family reasons).
21. "Charging and quantum size effects in tunneling spectroscopy of semiconductor nanocrystals", *Minerva International Workshop on Frontiers in the Physics of Complex Systems*, Dead Sea, Israel, March 2001.
22. "Scanning tunneling spectroscopy of epitaxial YBCO films: correlation with nanomorphology and the symmetry of the order parameter", *Minerva International Workshop on Advances in High Temperature Superconductivity*, Tel Aviv, May 2001.

23. "Wave function imaging and spectroscopy of quantized states in semiconductor quantum dots", *Gordon Conference on Clusters and Nanocrystals*, New London, CT, USA, July-August 2001.
24. "Tunneling through isolated nanocrystals", *9th International Conference on Hopping and Related Phenomena*, Kibbutz Shfaim, Israel, September 2001.
25. "Spatially resolved tunneling spectroscopy of YBCO and the symmetry of the order parameter", *47th annual meeting of the Israel Physical Society*, Tel Aviv, December 2001. (lecture given by my student, A. Sharoni).
26. "The electrical-thermal effect in carbon black/polymer composites as a local effect", *47th annual meeting of the Israel Physical Society*, Tel Aviv, December 2001. (lecture given by my student, N. Shimoni).
27. "Tunneling spectroscopy of semiconductor quantum dots and nanorods", *Annual meeting of the Israel Chemical Society*, Jerusalem, Israel, January 2002.
28. "Imaging and spectroscopy of atomic-like states in semiconductor quantum dots", "special" invited lecture, *Annual meeting of the German Physical Society*, Regensburg, Germany, March 2002.
29. "Scanning probe spectroscopy of nanostructured systems", *The Niedersachsen Symposium*, May 2002, Haifa.
30. "Correlation of tunneling spectra with surface nano-morphology and doping in thin YBa₂Cu₃O₇ films", *Annual meeting of the Israel Vacuum Society*, September 2002.
31. "Tunneling and optical spectroscopy of CdSe quantum rods", O. Millo and U. Banin, *Winter meeting of the Materials Research Society*, Boston, USA, December 2002. (presented by Banin).
32. "STM studies of nanostructured superconductor systems", *38th IUVSTA conference on "Nanosystems and Nanotechnology"*, Eilat, March 2003.
33. "STM study of the symmetry of the order parameter and the proximity effect in YBCO", *Minerva meeting on High Temperature Superconductivity*, Bluabueren, Germany, April 2003.
34. "Electronic properties of nanocrystals", Session Leader, *Gordon Conference on Clusters and Nanocrystals*, August 2003, New London, CT, USA.
35. "Scanning probe spectroscopy of nanostructured semiconductor systems", *Trends in Nanotechnology 2003*, Salamanca, Spain, September 2003.
36. "Tunneling spectroscopy of superconductor and semiconductor nanostructures", *"Science and Applications of Nanostructures"*, Jerusalem, November (2003).

37. "Symmetry of the order parameter in YBCO and the YBCO/Au proximity system" *49th annual meeting of the Israel Physical Society*, Bar-Ilan University, December 2003. (presented by my student, Amos Sharoni).
38. "Quantum level structure and single electron charging effects in CdSe and InAs nanorods", *49th annual meeting of the Israel Physical Society*, Bar-Ilan University, December 2003.
39. "Nanoscience at the Hebrew University: From basics to applications", *Israel-Holland Nanotechnology Conference*, Amsterdam, Holland, May 15 2004.
40. "Level Structure, Transport and Charging Effects in CdSe and InAs Nanocrystals", *Quantum Dots 2004*, Banff, Canada, May 2004.
41. "Current flow paths in micro-ocrystalline silicon", *12th Sede-Boqer Symposium on Solar Energy Production*, Sede-Boqer, February (2004). (presented by my student, D. Azulay).
42. "Unconventional superconductor proximity effect in YBCO-Au bilayers: An STM investigation", *Annual meeting of the Israel Vacuum Society*, September 2004.
43. "Anomalous Superconductor Proximity Effects in Gold Coated $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ Films Studied by Scanning Tunneling Spectroscopy" *LDSD2004 meeting*, Cancun, Mexico, December 2004.
44. "Anomalous Proximity Effects in Gold and SrRuO_3 Coated $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ Films", *The 5th Heinrich-Hertz Minerva Workshop on HTSC*, Kefar Hamaccabia, May 2005.
45. "Size dependent electronic structure of nanorods and metal-semiconductor nano-dumbbells", *Israel STM2005*, June 14-15, HAIT, Israel.
46. "Quantum size effects, dimensionality crossover and single electron tunneling in semiconductor nanorods", *25th G.I.F. Meeting on Nanotubes and Nanowires*, 18-23 June 2005, Dresden, Germany.
47. "Anomalous Proximity Effects in Metal Coated $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ Films", *SPIE meeting*, July 31-August 3 2005, San Diego, CA, USA.
48. "Local photococnductivity measurements on polycrystalline semiconductors: The role of grain boundaries", *13 Sede Boqer meeting on Solar Energy*, November 2005, Sede Boqer. (presented by student, D. Azulay).
49. "Proximity effect in YBCO-SRO superconductor-ferromagnet bilayers", *Annual meeting of the IPS*, December 2005, Carmiel. (presented by student, I. Asulin).
50. "Level structure in two-dimensional InAs quantum-dot assemblies and in CdSe-Au nanodumbbells", *Annual meeting of the IVS*, October 2006, Tel Aviv.

51. "Proximity effect in SRO-YBCO ferromagnet-superconductor bilayers", Annual meeting of the IVS, October 2006, Tel Aviv. (presented by I. Asulin).
52. *Israel-Taiwan meeting*, March 2007, Israel Academy of Sciences, Jerusalem
53. "Level structure in 2D quantum-dot and nanorods arrays" *Fall meeting of the MRS*, Boston, November 2007.
54. "Induced magnetization in F-S hybrids", Annual meeting of the IPS, Weizmann Institute of Science, December 2007.
55. " T_c enhancement in bilayers of differently doped LSCO films", Annual meeting of the IPS, Weizmann Institute of Science, December 2007.
56. "Electronic level structure of nanocrystals in arrays", Annual meeting of the IPS, Weizmann Institute of Science, December 2007.
57. "Proximity effects and cross Andreev reflections in perovskite ferromagnet-superconductor bilayers", *March meeting of the APS*, New Orleans, March 2008.
58. "Collective phenomena and proximity effects in nanocrystalline semiconductor materials", *Nanoscience with Nanocrystals 3*, Lecce, Italy, May 2008.
59. "Anomalous interface effects in YBCO-SRO superconductor-ferromagnet bilayers", LT25 conference, Amsterdam, August 2008.
60. "STS of hybrid semiconductor nanocrystals and their arrays", Annual meeting of the IPS, Ben-Gurion U., Israel, December 2008.
61. "Local transport properties of CdSe quantum-dot solids", Annual meeting of the IPS, Bar-Ilan U., Israel, December 2009 (presented by Dana Toker).
62. IPS student prize lecture – Doc Steiner, Annual meeting of the IPS, Bar-Ilan U., Israel, December 2009.
63. "Level structure and electrical transport in hybrid semiconductor nanorods systems", Nano-Israel, Jerusalem, March 2009.
64. "Transport through single colloidal semiconductor nanorods", IEEE 9th International Conference on nanotechnology, Genova, Italy, July 2009.
65. "Transport Properties of Single Semiconductor Nanorods and their Arrays", From Solid State to Bio-Physics V, Dubrovnik, June 2010.
66. "Long-range proximity effect in superconductor-ferromagnet junctions: Evidence for induced triplet-superconductivity in the ferromagnet", Annual meeting of the IPS, December 2011.

67. "Level structure and transport properties of single semiconductor nanocrystals" RCAS-ANNA Symposium on Studies of Nano and Bio-materials using single molecule techniques, Academia Sinica, Taipei, November 2011.
68. "Electronic properties grain boundaries in thin film Cu(In,Ga)Se₂", 18th Sdeh-Boqer symposium on solar energy production, February 2013.
69. "Electrical properties of hybrid semiconductor-metal and superconductor-metal systems", Ordered and Non-Ordered Superstructures of Nanosized Objects: Preparation, Properties, Applications and Modelling, Mallorca, Spain, March 2013.
70. "Proximity effects in hybrid superconductor-ferromagnet and superconductor-nanoparticle systems", WHE meeting on "Superconducting Proximity and Josephson Effects in Nanoscale Systems", Bad Honnef, Germany, November 2013.
71. "Electronic Properties of Hybrid Semiconductor-Metal Nanoparticles", IMEC-16 meeting, Technion, February 2014.
72. Royal Society Meeting on "Emergence of new exotic states at interfaces with superconductors", London, March 2014.
73. "Electrical properties of Cu₂S nanocrystal based systems", Annual meeting of the IKI center, Ben-Gurion University, May 2014.
74. "Doping effects in Cu₂S arrays and polycrystalline Cu(InGa)Se₂ films", Annual meeting of the Virtual Center on Solar Energy, Darmstadt, Germany, June 2014.