



Ariel University
Research and Development Authority

List of Scientific Publications

2014

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* רשימת הפרסומים מסודרת על-פי שם המחבר הראשון מבין המפרסמים.

** פרסום שנכתב ע"י חוקרים המשויכים למחלקות שונות, יופיע בכל מחלקה. ההופעות הכפולות יסומנו ב-*

Books and Periodicals

2014

ספרים ותקופונים

1. **Cohen, R.A.** (2014). *Upheavals in the Middle East: The Theory and Practice of the Revolution*. Maryland, USA: Lexington Books – Rowman & Littlefield.
2. **Domoshnitsky, A. & Litsyn, E.** (Eds.) (2014). *Functional Differential Equations, vol. 21, No. 1-2*. Israel: Ariel University Center of Samaria.
3. **Domoshnitsky, A. & Litsyn, E.** (Eds.) (2014). *Functional Differential Equations, vol. 22, No. 3-4*. Israel: Ariel University.
4. **Iskhakov, I. & Ribakov, Y.** (2014). *Ultimate Equilibrium of RC Structures Using Mini-Max Principle*. In: *Engineering Tools, Techniques and Tables*. New York: Nova Publishers.
5. **Lewin, E.** (2014). *Ethos Clash in Israeli Society*. USA: Lexington Books.
6. **Nissim, D.** (2014). *The Struggle for Jerusalem and the Holy Land: A New inquiry into the Qur'an and classic Islamic sources on the people of Israel, their Torah, and their links to the Holy Land*. (A.M. Goldstein (Trans)). Brighton M.A., USA: Academic studies press.
7. **Nizri, M.** (2014). *Ottoman High Politics and the Ulema Household*. New York, N.Y, USA: Palgrave Macmillan.
8. **אחיעזר, ג., אנוך, ר. ווינשטיין, ס.** (עורכים) (2014). *מחקרים ביהדות קווקז, גאורגיה ובוכרה: היבטים היסטוריים, סוציולוגיים ותרבותיים*. אריאל: אוניברסיטת אריאל, המכון לחקר העדות היהודיות של הקווקז ומרכז אסיה.
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10. **אנוך, ר.** (2014). *התרגום המסורתי של יהודי גאורגיה להגדה של פסח*. ירושלים: הוצאת הספרים ע"ש י"ל מאגנס, האוניברסיטה העברית בירושלים.

חזרה לתוכן העניינים

11. **ברתנא, א.** (2014). *החידה הרומנטית של "כוכבים בחוץ"*: יסודות התבנית של כוכבים בחוץ – מדמויי מציאות ועד יסודות בינאריים. ירושלים: כתר.
12. **ברתנא, א.** (עורך) (2014). *מורשת ישראל: כתב עת ליהדות, לציונות ולארץ ישראל*. אריאל: אוניברסיטת אריאל בשומרון.
13. **גולדשטיין, י.** (עורך) (2014). *בין דת, לאום וארץ: המאבק על הזהות היהודית בעת החדשה, מחקרים במדעי היהדות, שנתון בין תחומי כרך א'*. אריאל: אוניברסיטת אריאל בשומרון.
14. **טבגר, א', עמר, ז' וביליג, מ'** (עורכים) (2014). *במעבה ההר: מחקרי הר אפרים ובנימין, קובץ רביעי*. אריאל וטלמון: מדרשת הרי גופנא ומו"פ אזורי השומרון ובקעת הירדן.
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16. **סואן, ד.** (עורך ראשי) (2014). *סוגיות חברתיות בישראל, 17*. אריאל: אוניברסיטת אריאל בשומרון.
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1. Proceedings of the Fourteenth "Bi-National Workshop Russia – Israel" (2014). *The Optimization of the composition, Structure and Properties of Metals, Oxides, Composites, Nano – and Amorphous Materials*. **Zinigrad, M., & Lugovskoy, A.** (Eds.). Ariel: Ariel University.
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6. **Cherniavsky, Y.**, Goldstein, A., **Levit, V.E.** (2014). Groups of balanced labelings on graphs. *Discrete Mathematics* 320, 15-25.
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8. ***Davis, M.**, **Tobi, D.** (2014). Multiple Gaussian network modes alignment reveals dynamically variable regions: The hemoglobin case. *Proteins-Structure Function and Bioinformatics* 82 (9), 2097-2105.

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11. **Domoshnitsky, A.**, Koplatadze, R. (2014). On Asymptotic Behavior of Solutions of Generalized Emden-Fowler Differential Equations with Delay Argument. *Abstract and Applied Analysis*, Article Number: 168425.
12. **Domoshnitsky, A.**, Shklyar, R., Gitman, M., Stolbov, V. (2014). Positivity of Fundamental Matrix and Exponential Stability of Delay Differential System. *Abstract and Applied Analysis*, Article Number: 490816.
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14. **Flicker, Y.Z.** (2014). Eisenstein Series and the Trace Formula for $Gl(2)$ Over a Function Field. *Documenta Mathematica 19*, 1-62.
15. **Flicker, Y.Z.** (2014). Harmonic analysis on the Iwahori-Hecke algebra. *Japanese Journal of Mathematics 9* (2), 171-216.
16. **Gottlieb, L.A.**, Kontorovich, A., Krauthgamer, R. (2014). Efficient Classification for Metric Data. *IEEE Transactions on Information Theory 60* (9), 5750-5759.
17. Haitner, I., **Omri, E.** (2014). Coin Flipping with Constant Bias Implies One-Way Functions. *Siam Journal on Computing 43* (2), 389-409.
18. Hanin, L., **Bunimovich-Mendrazitsky, S.** (2014). Reconstruction of the natural history of metastatic cancer and assessment of the effects of surgery: Gompertzian growth of the primary tumor. *Mathematical Biosciences 247*, 47-58.

19. Kempner, Y., **Levit, V.E.** (2014). Poly-antimatroid polyhedral. *ARS Mathematica Contemporanea* 7 (1), 73-82.
20. **Levit, V.E.**, Mandrescu, E. (2014). A Set and Collection Lemma. *Electronic Journal of Combinatorics* 21 (1), Article Number: 40.
21. **Levit, V.E.**, Mandrescu, E. (2014). Greedoids on vertex sets of B-joins of graphs. *Carpathian Journal of Mathematics* 30 (3), 335-344.
22. **Levit, V.E.**, Mandrescu, E. (2014). On the intersection of all critical sets of a unicyclic graph. *Discrete Applied Mathematics* 162, 409-414.
23. **Levit, V.E.**, Milanic, M. (2014). Equistable simplicial, very well-covered, and line graphs. *Discrete Applied Mathematics* 165, 205-212.
24. **Nivasch, G.**, Pach, J., Tardos, G. (2014). The visible perimeter of an arrangement of disks. *Computational Geometry-Theory and Applications* 47 (1), 42-51.
25. **Shami, Z.** (2014). On uncountable hypersimple unidimensional theories. *Archive for Mathematical Logic* 53 (1-2), 203-210.
26. Yozevitch, R., **Ben-Moshe, B.**, Dvir, A. (2014). GNSS Accuracy Improvement Using Rapid Shadow Transitions. *IEEE Transactions on Intelligent Transportation Systems* 15 (3), 1113-1122.

Physics

פיזיקה

Scientific Publications

2014

מאמרים

1. Bachar, Y., Arshansky, R.I., **Horwitz, L.P.**, Aharonovich, I. (2014). Lorentz Invariant Berry Phase for a Perturbed Relativistic Four Dimensional Harmonic Oscillator. *Foundations of Physics* 44 (11), 1156-1167.
2. **Balal, N.**, Bratman, V.L., Savilov, A.V. (2014). Peculiarities of the coherent spontaneous synchrotron radiation of dense electron bunches. *Physics of Plasmas* 21 (2), Article Number: 023103.
3. ***Bormashenko, E.**, Balter, R., Aharoni, H., Aurbach, D. (2014). Shaped composite liquid marbles. *Journal of Colloid and Interface Science* 417, 206-209.
4. ***Bormashenko, E.**, Balter, S., Malkin, A., Aurbach, D. (2014). Polysulfone Membranes Demonstrating Asymmetric Diode-like Water Permeability and Their Applications. *Macromolecular Materials and Engineering* 299 (1), 27-30.
5. ***Bormashenko, E.**, Chaniel, G., Gendelman, O. (2014). Hydrophilization and hydrophobic recovery in polymers obtained by casting of polymer solutions on water surface. *Journal of Colloid and Interface Science* 435, 192-197.
6. **Bormashenko, E.**, Gendelman, O. (2014). A generalized electrowetting equation: Its derivation and consequences. *Chemical Physics Letters* 599, 139-141.
7. **Bormashenko, E.**, Musin, A., Grynyov, R. (2014). Scaling law governing the roughness of the swash edge line. *Scientific Reports* 4, Article Number: 6243.
8. **Bormashenko, E., Pogreb, R.**, Bormashenko, Y., Grynyov, R., Gendelman, O. (2014). Low voltage reversible electrowetting exploiting lubricated polymer honeycomb substrates. *Applied Physics Letters* 104 (17), Article Number: 171601.

9. Li, D.P., **Rosenstein, B.**, Shapiro, B.Y., Shapiro, I. (2014). Quantum critical point in the superconducting transition on the surface of a topological insulator. *Physical Review B* 90 (5), Article Number: 054517.
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11. **Platkov, M.**, Tirosh, R., Kaufman, M., Zurgil, N., Deutsch, M. (2014). Photobleaching of fluorescein as a probe for oxidative stress in single cells. *Journal of Photochemistry and Photobiology B-Biology* 140, 306-314.
12. **Raichlin, Y.**, Avisar, D., Gerber, L., Katzir, A. (2014). Flattened infrared fiber-optic sensors for the analysis of micrograms of insoluble solid particles in solution or in a dry state. *Vibrational Spectroscopy* 73, 67-72.
13. **Rosenstein, B.**, Kao, H.C., **Lewkowicz, M.** (2014). Long-range electron-electron interactions in graphene make its electrodynamics nonlocal. *Physical Review B* 90 (4), Article Number: 045137.
14. **Rosenstein, B.**, Shapiro, B.Y., Li, D.P., Shapiro, I. (2014). Triplet superconductivity in 3D Dirac semi-metal due to exchange interaction. *Journal of Physics-Condensed Matter* 27 (2), Article Number: 025701.
15. Sherman, D., Gorshunov, B., Poran, S., Trivedi, N., **Farber, E.**, Dressel, M., Frydman, A. (2014). Effect of Coulomb Interactions on the Disorder-Driven Superconductor-Insulator Transition. *Physical Review B* 89 (3), Article Number: 035149.
16. *Starostin, A., Valtsifer, V., Strelnikov, V., **Bormashenko, E.**, Grynyov, R., Bormashenko, Y., et al. (2014). Robust Technique Allowing the Manufacture of Superoleophobic (Omniphobic) Metallic Surfaces. *Advanced Engineering Materials* 16 (9), 1127-1132.
17. *Subramanian, P., Cohen, A., Teblum, E., Nessim, G.D., **Bormasheko, E.**, **Schechter, A.** (2014). Electrocatalytic activity of nitrogen plasma treated vertically aligned carbon nanotube carpets towards oxygen reduction reaction. *Electrochemistry Communications* 49, 42-47.

Molecular Biology

ביולוגיה מולקולרית

Scientific Publications

2014

מאמרים

1. ***Abookasis, D.**, Shochat, A., Neshet, E., **Pinhasov, A.** (2014). Exploring diazepam's effect on hemodynamic responses of mouse brain tissue by optical spectroscopic imaging. *Biomedical Optics Express* 5 (7), 2184-2195.
2. Chmelnitsky, I., Shklyar, M., Leavitt, A., Sadovsky, E., **Navon-Venezia, S.**, Ben Dalak, M., et al. (2014). Mix and match of KPC-2 encoding plasmids in Enterobacteriaceae-comparative genomics. *Diagnostic Microbiology and Infectious Disease* 79 (2), 255-260.
3. Davis, M., **Tobi, D.** (2014). Multiple Gaussian network modes alignment reveals dynamically variable regions: The hemoglobin case. *Proteins-Structure Function and Bioinformatics* 82 (9), 2097-2105.
4. Edelheit, O., Ben-Shahar, R., Dascal, N., Hanukoglu, A., **Hanukoglu, I.** (2014). Conserved charged residues at the surface and interface of epithelial sodium channel subunits-roles in cell surface expression and the sodium self-inhibition response. *Febs Journal* 281 (8), 2097-2111.
5. **Hanukoglu, I.**, Ezra, L. (2014). Proteopedia Entry: Coiled-coil Structure of Keratins. *Biochemistry and Molecular Biology Education* 42 (1), 93-94.
6. Karako-Lampert, S., Zoccola, D., **Salmon-Divon, M.**, Katzenellenbogen, M., Tambutte, S., Bertucci, A., et al. (2014). Transcriptome Analysis of the Scleractinian Coral *Stylophora pistillata*. *Plos One* 9 (2), Article Number: e88615.
7. Moran-Gilad, J., Adler, A., Schwartz, D., **Navon-Venezia, S.**, Carmeli, Y. (2014). Laboratory evaluation of different agar media for isolation of carbapenem-resistant *Acinetobacter* spp. *European Journal of Clinical Microbiology & Infectious Diseases* 33 (11), 1909-1913.

8. Naparstek, L., Carmeli, Y., **Navon-Venezia, S.**, Banin, E. (2014). Biofilm formation and susceptibility to gentamicin and colistin of extremely drug-resistant KPC-producing *Klebsiella pneumoniae*. *Journal of Antimicrobial Chemotherapy* 69 (4), 1027-1034.
9. **Netzer, Y.**, Shenker, M., Schwartz, A. (2014). Effects of irrigation using treated wastewater on table grape vineyards: dynamics of sodium accumulation in soil and plant. *Irrigation Science* 32 (4), 283-294.
10. Rozenberg, K., Smirin, P., Sampson, S.R., **Rosenzweig, T.** (2014). Insulin-sensitizing and insulin-mimetic activities of *Sarcopoterium spinosum* extract. *Journal of Ethnopharmacology* 155 (1), 362-372.
11. Yerushalmi, G.M., **Salmon-Divon, M.**, Yung, Y., Maman, E., Kedem, A., Ophir, L., et al. (2014). Characterization of the human cumulus cell transcriptome during final follicular maturation and ovulation. *Molecular Human Reproduction* 20 (8), 719-735.

Biological Chemistry

כימיה ביולוגית

Scientific Publications

2014

מאמרים

1. Attia, S., Shames, A., Zilbermann, I., Goobes, G., Maimon, E., **Meyerstein, D.** (2014). Covalent binding of a nickel macrocyclic complex to a silica support: towards an electron exchange column. *Dalton Transactions* 43 (1), 103-110.
2. Brider, T., Redko, B., **Grynszpan, F., Gellerman, G.** (2014). Three overlooked chemical approaches toward 3-naphthalimide amonafide N-derivatives. *Tetrahedron Letters* 55 (49), 6675-6679.
3. Burg, A., Shamir, D., Shusterman, I., **Kornweitz, H., Meyerstein, D.** (2014). The role of carbonate as a catalyst of Fenton-like reactions in AOP processes: CO₃ center dot- as the active intermediate. *Chemical Communications* 50 (86), 13096-13099.
4. Burg, A., Shusterman, I., **Kornweitz, H., Meyerstein, D.** (2014). Three H₂O₂ molecules are involved in the "Fenton-like" reaction between Co(H₂O)(6)(2+) and H₂O₂. *Dalton Transactions* 43 (24), 9111-9115.
5. *Gilad, Y., **Firer, M.A.**, Rozovsky, A., Ragozin, E., Redko, B., Albeck, A., **Gellerman, G.** (2014). "Switch off/switch on" regulation of drug cytotoxicity by conjugation to a cell targeting peptide. *European Journal of Medicinal Chemistry* 85, 139-146.
6. Green, U., Keinan-Adamsky, K., Attia, S., Aizenshtat, Z., Goobes, G., Ruthstein, S., **Cohen, H.** (2014). Elucidating the role of stable carbon radicals in the low temperature oxidation of coals by coupled EPR-NMR spectroscopy - a method to characterize surfaces of porous carbon materials. *Physical Chemistry Chemical Physics* 16 (20), 9364-9370.

7. Green, U., Shenberger, Y., Aizenshtat, Z., **Cohen, H.**, Ruthstein, S. (2014). Exploring the Radical Nature of a Carbon Surface by Electron Paramagnetic Resonance and a Calibrated Gas Flow. *Jove-Journal of Visualized Experiments* 86, Article Number: e51548.
8. Lieberman, R.N., Teutsch, N., **Cohen, H.** (2014). Chemical and Surface Transformations of Bituminous Coal Fly Ash Used in Israel Following Treatments with Acidic and Neutral Aqueous Solutions. *Energy & Fuels* 28 (7), 4657-4665.
9. **Neelam-Singh, V.**, Gupta, T. (2014). Optical "Turn off" based selective detection and concomitant degradation of 2-chloroethyl ethyl sulfide (CEES) via Mg- porphyrazine complex immobilized on glass. *Analytica Chimica Acta* 812, 222-227.
10. **Patchornik, G.**, Wachtel, E., Kesselman, E., Danino, D. (2014). Cryo-TEM structural analysis of conjugated nonionic engineered-micelles. *Soft Matter* 10 (27), 4922-4928.
11. Schutz, O., Masarwa, A., Zilbermann, I., Maimon, E., **Cohen, H.**, **Meyerstein, D.** (2014). On the Mechanism of Reduction of Maleate Ions by Ni-I Complexes with Tetraazamacrocyclic Ligands in Aqueous Solutions. *European Journal of Inorganic Chemistry* 2014 (5), 932-940.
12. ****Subramanian, P.**, Cohen, A., Teblum, E., Nessim, G.D., **Bormasheko, E.**, **Schechter, A.** (2014). Electrocatalytic activity of nitrogen plasma treated vertically aligned carbon nanotube carpets towards oxygen reduction reaction. *Electrochemistry Communications* 49, 42-47.
13. **Zidki, T.**, Bar-Ziv, R., Green, U., **Cohen, H.**, Meisel, D., **Meyerstein, D.** (2014). The effect of the nano-silica support on the catalytic reduction of water by gold, silver and platinum nanoparticles - nanocomposite reactivity. *Physical Chemistry Chemical Physics* 16 (29), 15422-15429.

Chemical Engineering
(Biotechnology & Materials)

הנדסת כימיה
(ביוטכנולוגיה וחומרים)

Scientific Publications

2014

מאמרים

1. **Anker, Y.,** Hershkovitz, Y., Ben Dor, E., Gasith, A. (2014). Application of Aerial Digital Photography for Macrophyte Cover and Composition Survey In Small Rural Streams. *River Research and Applications* 30 (7), 925-937.
2. **Bormashenko, E.,** Balter, R., Aharoni, H., Aurbach, D. (2014). Shaped composite liquid marbles. *Journal of Colloid and Interface Science* 417, 206-209.
3. **Bormashenko, E.,** Balter, S., Malkin, A., Aurbach, D. (2014). Polysulfone Membranes Demonstrating Asymmetric Diode-like Water Permeability and Their Applications. *Macromolecular Materials and Engineering* 299 (1), 27-30.
4. **Bormashenko, E.,** Chaniel, G., Gendelman, O. (2014). Hydrophilization and hydrophobic recovery in polymers obtained by casting of polymer solutions on water surface. *Journal of Colloid and Interface Science* 435, 192-197.
5. ***Bormashenko, E.,** Gendelman, O. (2014). A generalized electrowetting equation: Its derivation and consequences. *Chemical Physics Letters* 599, 139-141.
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Electrical and Electronics

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Engineering

Scientific Publications

2014

מאמרים

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**Mechanical Engineering and
Mechatronics**

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הנדסה אזרחית

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**Industrial Engineering and
Management**

הנדסת תעשייה וניהול

Scientific Publications

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Architecture

ארכיטקטורה

Scientific Publications

2014

מאמרים

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Economics and Business

כלכלה ומנהל עסקים

Administration

Scientific Publications

2014

מאמרים

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Behavioral Sciences

מדעי ההתנהגות

Scientific Publications

2014

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Social Work

עבודה סוציאלית

Scientific Publications

2014

מאמרים

1. **Ben-Ezra, M.**, Goodwin, R., Palgi, Y., Kaniasty, K. Crawford, M.Z., **Weinberger, A.**, **Hamama-Raz, Y.** (2014). Concomitants of perceived trust in hospital and medical services following Hurricane Sandy. *Psychiatry Research* 220 (3), 1160-1162.
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Israel Heritage

מורשת ישראל

Scientific Publications

2014

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רב תחומי במדעי החברה והרוח

Multidisciplinary Studies (Humanities)

Sociology and Antropology

סוציולוגיה ואנתרופולוגיה

Scientific Publications

2014

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חזרה לתוכן העניינים

9. דן סואן. (2014). "האש התוקפת": דחייה או הכלה של תלמידות אתיופיות בפנימייה. *החינוך וסביבו* ל"ו, 249-267.

רב תחומי במדעי החברה והרוח

Multidisciplinary Studies (Humanities)

Criminology

קרימינולוגיה

Scientific Publications

2014

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Israel & The Middle East

ישראל במזרח התיכון

Scientific Publications

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1. Galily, Y., **Tamir, I.** (2014). A Match Made in Heaven?! Sport, Television, and New Media in the Beginning of the Third Millennium. *Television & New Media* 15 (8), 699-702.
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חזרה לתוכן העניינים

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Health Management

מנהל מערכות בריאות

Scientific Publications

2014

מאמרים

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Physiotherapy

פיזיותרפיה

Scientific Publications

2014

מאמרים

1. Finestone, A.S., Milgrom, C., Yanovich, R., Evans, R., Constantini, N., **Moran, D.S.** (2014). Evaluation of the Performance of Females as Light Infantry Soldiers. *Biomed Research Internationa*, Article Number: 572953.
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5. **Jacob, T.**, Bruill, M., Cahana, C. (2014). Physical therapy services in Israel for clients with developmental disabilities from a legal perspective. *International Journal on Disability and Human Development* 13 (1), 121-139.
6. **Katz, A.**, Hernandez, A., Caballero-Ramos, D.M, Briceno-Bonilla, J.F., Amezcuita-Rivera, L.V., Kosterina, N. et al. (2014). Effects of N-acetylcysteine on isolated mouse skeletal muscle: contractile properties, temperature dependence, and metabolism. *Pflugers Archiv-European Journal of Physiology* 466 (3), 577-585.
7. **Katz, A.**, Westerblad, H. (2014). Regulation of glycogen breakdown and its consequences for skeletal muscle function after training. *Mammalian Genome* 25 (9-10), 464-472.

8. **Lotan, M.**, Elefant, C., Merrick, J. (2014). Identifying undiagnosed adults with Rett syndrome: Procedure and clinical implications. *International Journal of Child Health and Human Development* 7 (2), 125-133.
9. **Rabin, A., Kozol, Z.**, Finestone, A.S. (2014). Limited ankle dorsiflexion increases the risk for mid-portion Achilles tendinopathy in infantry recruits: a prospective cohort study. *Journal of Foot and Ankle Research* 7, Article Number: 48.
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12. **Rabin, A.**, Shashua, A., Pizem, K., Dickstein, R., Dar, G. (2014). A Clinical Prediction Rule to Identify Patients with Low Back Pain Who Are Likely to Experience Short-Term Success Following Lumbar Stabilization Exercises: A Randomized Controlled Validation Study. *Journal of Orthopaedic & Sports Physical Therapy* 44 (1), 6-18.
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Nutrition

מדעי התזונה

Scientific Publications

2014

מאמרים

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Communication Disorders

הפרעות בתקשורת

Scientific Publications

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