

**1. פרסומים מהדרגה האחרונה (בסדר כרונולוגי וע"פ הקטגוריות הבאות)**

**1.1 Peer Reviewed Papers in Journals**

1. Z. Amrar, E. Rabinovich, I. Baruch, G. Ziskind, Parametric Study of Heat Transfer Coefficient and Friction Factor in a Corrugated Channel, In preparation.
2. E. Rabinovich, H. Kalman, P. Peterson, Parametric Study and Design Procedure for Planar Silos and Hoppers, Powder Technology **388** (2021) 333-342.
3. E. Rabinovich, H. Kalman, P. Peterson, Granular Material Flow Regime Map for Planar Silos and Hoppers, Powder Technology **377** (2021) 597-606.
4. S. Shaul, E. Rabinovich and H. Kalman, Typical Fluidization Characteristics for Geldart's Classification Groups, Particulate Science and Technology **32** (2) (2014) 197-205.

**1.2. Papers Presented in Conferences**

1. A. Biton, E. Rabinovich, E. Gilad, Experimental Study of Flooding Phenomenon in Vertical Tube and Annular Channels, NURETH 19, Brussels, Belgium, March 6-11, 2022.
2. A. Biton, E. Rabinovich, R. Freud, E. Gilad, Experimental Study of Flooding Phenomenon in Vertical Annular Smooth and Corrugated Channels, NURETH 18, Portland, USA, 2019.
3. L. Nahon, T. Bar-Kohany, E. Rabinovich, Y. Aharon, Critical Heat Flux in Vertical Annulus under Zero Flow conditions with Radial Heat Losses, NURETH 18, Portland, USA, 2019.
4. L. Ishay, E. Rabinovich, N. Hasensprung, Thermohydraulic Analysis and Uncertainty Propagation in the IRR-1, The 35<sup>th</sup> Israeli Conference on Mechanical Engineering (ICME) Beer Sheva, Israel, October 9-10, 2018.
5. L. Ishay, E. Rabinovich, N. Hasensprung, A Comparison Between Methods of Uncertainty Assessments for Thermal-Hydraulic Calculations, Best Estimate Plus Uncertainty International Conference (BEPU 2018-265), Lucca, Italy, May 13-19, 2018.
6. L. Ishay, E. Rabinovich, N. Hasensprung, A Comparative Study for Uncertainty Assessments of Thermal Hydraulic Parameters of the IRR-1, The 29<sup>th</sup> Conference of the Nuclear Societies in Israel, Herzliya, Israel, May 8-10, 2018.
7. M. Levy, E. Rabinovich and H. Kalman, The Effect of Particles Size on the Effective Thermal Conductivity of Particles Bed, The 33<sup>rd</sup> Israeli Conference on Mechanical Engineering (ICME) Tel-Aviv, Israel, March 2-3, 2015.

## 2. פרסומים גלויים לפני הדרגה האחרונה (בסדר כרונולוגי וע"פ הקטגוריות הבאות)

### 2.1. Peer Reviewed Papers in Journals

1. S. Shaul, E. Rabinovich and H. Kalman, Generalized Flow Regime Diagram of Fluidized Beds Based on Height to Bed Diameter Ratio, *Powder Technology* **228** (2012) 264-271.
2. E. Rabinovich, N. Freund, H. Kalman and G. Klinzing, Friction Forces on Plugs of Coarse Particles Moving Upwards in a Vertical Column, *Powder Technology* **219** (2012) 143-150.
3. E. Rabinovich and H. Kalman, Threshold Velocities of Particle-Fluid Flows in Horizontal Pipes and Ducts: Literature Review, *Review in Chemical Engineering* **27** (2011) 215-239.
4. E. Rabinovich and H. Kalman, Flow Regime Diagram for Vertical Pneumatic Conveying and Fluidized Bed Systems, *Powder Technology* **207** (2011) 119-133.
5. E. Rabinovich and H. Kalman, Phenomenological Study of Saltating Motion of Individual Particles in Horizontal Particle-Gas Systems, *Chemical Engineering Science* **65** (2010) 739-752.
6. E. Rabinovich and H. Kalman, Pickup Velocity from Particles Deposits, *Powder Technology* **194** (2009c) 51-57.
7. E. Rabinovich and H. Kalman, Incipient Motion of Individual Particles in Horizontal Particle-Fluid Systems: a. Experimental Analysis, *Powder Technology* **192** (2009b) 318-325.
8. E. Rabinovich and H. Kalman, Incipient Motion of Individual Particles in Horizontal Particle-Fluid Systems: b. Theoretical Analysis, *Powder Technology* **192** (2009a) 326-338.
9. E. Rabinovich and H. Kalman, Boundary Saltation and Minimum Pressure Velocities in Particle-Gas Systems, *Powder Technology* **185** (2008c) 67-79.
10. E. Rabinovich and H. Kalman, Generalized Master Curve for Threshold Velocities in Particle-Fluid Systems, *Powder Technology* **183** (2008b) 304-313.
11. H. Kalman and E. Rabinovich, Analyzing Threshold Velocities for Fluidization and Pneumatic Conveying, *Chemical Engineering Science* **63** (2008a) 3466-3473.
12. E. Rabinovich and H. Kalman, Pickup, Critical and Wind Threshold Velocities of Particles, *Powder Technology* **176** (2007) 9-17.
13. H. Kalman, A. Satran, D. Meir and E. Rabinovich, Pickup (Critical) Velocity of Particles, *Powder Technology* **160** (2005) 103-113.

### 2.2. Papers Presented in Conferences

1. S. Shaul, E. Rabinovich and H. Kalman, Typical Fluidization Characteristics for Geldart's Classification Groups and Generalized Flow Regime Diagram of Fluidized Bed, The 32<sup>nd</sup> Israeli Conference on Mechanical Engineering (ICME) Tel-Aviv, Israel, October 17-18, 2012.
2. S. Shaul, E. Rabinovich and H. Kalman, Typical Fluidization Characteristics for Geldart's Classification Groups, 7<sup>th</sup> International Conference for Conveying and Handling of Particulate Solids (CHoPS) Friedrichshafen, Germany, September 10-13, 2012.
3. E. Rabinovich and H. Kalman, Incipient Motion of Individual Particles, 15<sup>th</sup> International Conference Transport & Sedimentation of Solid Particles, Wroclaw, Poland, September 6-9, 2011.
4. E. Rabinovich and H. Kalman, Generalized Flow Regime Diagram for Vertical Pneumatic Systems, International Freight Pipeline Society Symposium, Madrid, Spain, June 29-July 1, 2011.
5. E. Rabinovich, N. Freund, H. Kalman and G. Klinzing, Friction Force on Vertical Plug Flow, International Freight Pipeline Society Symposium, Madrid, Spain, June 29-July 1, 2011.

6. E. Rabinovich and H. Kalman, Threshold Velocities in Horizontal Particle Fluid Flows, 49<sup>th</sup> European Two-Phase Flow Group Meeting, Tel-Aviv, Israel, May 29-June 02, 2011.
7. E. Rabinovich, D. Portnikov and H. Kalman, Flow Regime Diagram for Vertical Pneumatic Conveying Systems, International Conference & Exhibition on Storing, Handling and Processing Bulk Solids and Power, Mumbai, India, April 6-8, 2011.
8. E. Rabinovich and H. Kalman, Flow Regime Diagram for Vertical Pneumatic Conveying Systems, 31<sup>th</sup> Israel Conference on Mechanical Engineering (ICME), Tel-Aviv, Israel, June 2-3, 2010.
9. N. Freund, E. Rabinovich, H. Kalman and G. Klinzing, Experimental and Theoretical Analysis of Shear Stresses and Friction Force on Vertical Plug Flows, 31<sup>th</sup> Israel Conference on Mechanical Engineering (ICME), Tel-Aviv, Israel, June 2-3, 2010.
10. S. Shaul, E. Rabinovich and H. Kalman, Reconsidering Geldart's Classification for Powders in Fluidized Beds Systems, 31<sup>th</sup> Israel Conference on Mechanical Engineering (ICME), Tel-Aviv, Israel, June 2-3, 2010.
11. N. Freund, E. Rabinovich, H. Kalman and G. Klinzing, Experimental and Theoretical Analysis of Friction Force on Vertical Plug Flows, 6<sup>th</sup> World Congress on Particle Technology, Nuremberg, Germany, April 26-29, 2010.
12. S. Shaul, E. Rabinovich and H. Kalman, Reconsidering Geldart's Classification for Fluidized Beds, 6<sup>th</sup> World Congress on Particle Technology, Nuremberg, Germany, April 26-29, 2010.
13. E. Rabinovich and H. Kalman, The Saltation Phenomenon in Horizontal Particle-Gas System, 6<sup>th</sup> International Conference for Conveying and Handling of Particulate Solids (CHoPS), Brisbane, Australia, August 3-7, 2009.
14. E. Rabinovich and H. Kalman, Flow Regime Diagram for Vertical Pneumatic Conveying and CFB Systems, 12<sup>th</sup> International Freight Pipeline Society Symposium, Istanbul, Turkey, May 29-30, 2009.
15. E. Rabinovich and H. Kalman, Pickup Velocity of Particles from Heaps, 14<sup>th</sup> International Conference on Transport & Sedimentation of Solid Particles, Saint Petersburg, Russia, June 23-27, 2008.
16. H. Kalman and E. Rabinovich, Threshold Velocities in Particle-Fluid Systems, 14<sup>th</sup> International Conference on Transport & Sedimentation of Solid Particles, Saint Petersburg, Russia, June 23-27, 2008, KETNOTE LECTURE.
17. H. Kalman and E. Rabinovich, Threshold Velocities in Particle-Fluid Systems, 2007 International Symposium on Pneumatic Conveying Technologies, Beijing, China, October 18-20, 2007.
18. H. Kalman and E. Rabinovich, Considering Particle Size Distribution for various Threshold Velocities, International Conference on Bulk Materials, Storage, Handling & Transportation, Newcastle, Australia, October 9-11, 2007.
19. E. Rabinovich and H. Kalman, Incipient Motion (Pickup) of Single Particles in Horizontal Conveying Systems, International Conference on Bulk Materials, Storage, Handling & Transportation, Newcastle, Australia, October 9-11, 2007.
20. E. Rabinovich, E. Grant and H. Kalman, Minimum Fluidization Velocity as a Part of a Generalized Master-Curve for Threshold Velocities, International Congress on Particle Technology, Nuremberg, Germany, March 27-29, 2007.
21. E. Rabinovich and H. Kalman, The Effect of Loading Ratio on the Minimum Pressure Velocity, International Congress on Particle Technology, Nuremberg, Germany, March 27-29 2007.
22. E. Rabinovich, Y. Weiss and H. Kalman, Pickup, Wind Threshold and Critical Velocities of Particles, International Conference on Transport & Sedimentation of Solid Particles, Tbilisi, Georgia, September 18-20, 2006.

23. E. Rabinovich, Y. Weiss and H. Kalman, Saltation Length and Velocity of Granules in Air Flow, 5<sup>th</sup> World Congress on Particle Technology, April 24-26, 2006.
24. E. Rabinovich and H. Kalman, Master Curve for Threshold Velocities in Particle-Fluid Systems, 5<sup>th</sup> International Conference for Conveying and Handling of Particulate Solids (CHoPS), Sorrento, Italy, 2006.
25. E. Rabinovich, Y. Weiss and H. Kalman, Three Length Model for Saltation of Particles in Air Flow, 5<sup>th</sup> World Congress on Particle Technology, Orlando, USA, 2006.
26. E. Rabinovich, A. Satran, D. Meir and H. Kalman, Critical Velocity from a Layer of Particles in Horizontal Pneumatic Conveying, 30<sup>th</sup> Israel Conference on Mechanical Engineering (ICME), Tel-Aviv, Israel, 2005.