

CURRICULUM VITA

Oded Navon

Institute of Earth Sciences, The Hebrew University of Jerusalem

2. ACADEMIC BACKGROUND

- 1974-1977 B.Sc. in Chemistry and Physics (1978, Magna cum Laude)
The Hebrew University, Jerusalem, Israel
- 1980-1982 M.Sc. program in Geology, The Hebrew University, Jerusalem, Israel
Thesis: *Petrology and structural analysis of metamorphic rocks in Wadi Kid, Sinai.*
Advisors: Arthur Reymer and Alan Matthews
(left just before completion to begin his Ph.D.)
- 1982-1988 Ph.D. in Geology (1989), California Institute of Technology, Pasadena, CA
Thesis: *Chemical and mineralogical characterization of micro-inclusions in diamonds.*
Advisor: Gerald J. Wasserburg

3. POSITIONS AT THE HEBREW UNIVERSITY

- 1989-1995 **Lecturer** in Geology, The Institute of Earth Sciences
1995-2000 **Senior Lecturer** in Earth Sciences, The Institute of Earth Sciences
2000-2006 **Associate Professor** of Earth Sciences, The Institute of Earth Sciences
2000-2004 **Head**, Teaching Program in Earth Sciences, The Institute of Earth Sciences
2006-2020 **Full Professor** of Earth Sciences, The Institute of Earth Sciences
2006- The Gerald M. Freidman **Chair in Geology**
2008-2012 **Vice-Rector**
2012-2015 **Head**, the Fredy and Nadine Herrmann Institute of Earth Sciences
2014- **Member** of the Board, Israel Institute of Advanced Studies
2016- **Head** of the Academic Committee, The Advanced School for environmental studies, The Hebrew University
2020- **Emeritus Professor** of Earth Sciences, The Institute of Earth Sciences

5. POSITIONS AT OTHER UNIVERSITIES

- 1996 Leverhulme Fellow (three months)
Institute for Advanced Studies, University of Bristol, England
- 1999-2000 Visiting Fellow (Sabbatical)
Department of Earth Sciences, University of Bristol, England
- 2007-2008 Visiting Professor (Sabbatical)
Department of Earth and Planetary Sciences, Macquarie University, Australia
- 2007- Department of Earth and Planetary Sciences, Macquarie University, Australia

6. OTHER ACTIVITIES

a. Voluntary Activities

- 2001-2003 **Member** of the board (IAVCEI representative)
Israeli Committee for the International Union of Geology and Geodesy (IUGG)
- 2001-2010 **Scientific Adviser** (Earth Sciences), Masa Acher, a geographical magazine.
- 2001-2002+ **Member** of the board of directors
- 2008-2010 Adam Teva Vadin - Israel Union for Environmental Defense.
- 2002-2008 **Chairman**, the board of directors
Adam Teva Vadin - Israel Union for Environmental Defense.
- 2002- **Lecturer**, Bashaar - Academic Community for Israeli Society, scientific guest lectures at schools in the periphery.
- 2003-2007 **President of IAVCEI** – The International Association of Volcanology and Chemistry of the Earth Interior.
- 2004-2005 **Guest Editor**, Journal of Volcanology and Geothermal Research, special volume on modeling and monitoring of volcanoes.
- 2004-2008 **Chief Editor, Melakh Haaretz** (Salt of the Earth) – Annual series of popular papers in geology and other sciences in relation to the Dead Sea.
- 2009-2012 **Co-editor, Melakh Haaretz** (Salt of the Earth) – Annual series of popular papers in geology and other sciences in relation to the Dead Sea.
- 2017-2018 **Guest Editor**, Mineralogy and Petrology, Proceedings of the 11th International Kimberlitic Conference in Gaborone, Botswana.
- 2017- **Member** of the Board of directors, Bashaar - Academic Community for Israeli Society.
- 2018- **Member**, Advisory Committee to the General Director of the Ministry of Energy and Infrastructure on the Israeli Geological Survey and the Oceanographic and Limnological Research Institute.

b. Conferences

As the president of IAVCEI I took part in organizing the General assembly in Pucon, Chile in 2004, IAVCEI 2006 in Guangzhou, China, the IUGG 2007 in Perugia, Italy and the IAVCEI General Assembly in 2008 in Iceland.

In 2017 I was a member of the scientific committee of the 11th International Kimberlitic Conference in Gaborone, Botswana.

c. Membership in Scientific Associations

Honorary Member – International Union of Geodesy and Geophysics (IUGG)

Life Member - International Association of Volcanology and Chemistry of the Earth Interior (IAVCEI).

Member - American Geophysical Union.

Member - Geochemical Society

Member – Israel Geological Society

7. RESEARCH GRANTS

- 1990-1991 Alon Foundation, *The Chemistry of inclusions in Diamonds*. \$25,000 (11, 12)
- 1990 Basic Research Foundation - Basic Equipment, *Fourier Transform Infra Red Spectrometer*. \$130,828 (11, 12, 14, 15, 16, 20, 22, 24, 37, 38, 42, 43, 44)

- 1990-1994 Binational Science Foundation ***Non-Equilibrium Processes in Water-Melt Systems: Water Diffusion and Bubble Nucleation in Hydrated Silicate Melts and Glasses***; (with E. Stolper; Caltech); \$99,750 (16, 19)
- 1990-1991 Basic Research Foundation - Israeli Academy of Science and Humanities ***Non-Equilibrium Processes in Water-Melt Systems: Water Diffusion and Bubble Nucleation in Hydrated Silicate Melts and Glasses***. \$10,000.
- 1991-1992 Ministry of Energy - Earth Research Administration ***Petrogenesis of Young Volcanic Rocks in Har Avital Region, Northern Golan Heights***. (with. B. Lang; Geol. Survey of Israel); NIS 33,000. (17)
- 1992-1995 Basic Research Foundation - Israeli Academy of Science and Humanities ***Chemical, Isotopic and Experimental Studies of Fluid-Inclusions in Diamonds***. \$62,100. (14, 15, 20)
- 1993-1995 Ministry of Energy - Earth Research Administration ***Petrogenesis of the Igneous Rocks of the Eilat Region***. (with M. Stein; Hebrew University), NIS 60,000. (21)
- 1994-1997 Scientific Cooperation with Austria ***Chemistry and Thermodynamics of Hydrous and Carbonatitic Fluids Trapped in Diamonds***.; (a complementary proposal by Ch. Koerberl, U. of Vienna is funded separately), \$56,200. (20)
- 1994-1996 Ministry of Energy - Earth Research Administration ***Petrogenesis of Alkali-Basalts in North-Eastern Israel***. (with G. Steinitz; Geol. Survey of Israel), NIS 13,000.
- 1995 The Zvi Herman Shapira Foundation ***Vesiculation of Sub-Volcanic Magma***. \$12,000.
- 1995-1998 Binational Science Foundation ***Bubble Nucleation and Growth in Silicate Melts - Experimental and Theoretical Investigation***. (with J. Holloway and J. Fink, ASU, Tempe, Arizona), \$115,500. (19, 22)
- 1997 Israel Science Foundation (Scientific Equipment Fund) ***Micro-Raman Spectrometer System***.; \$150,000. (24, 36, 40, 42, 43)
- 1997-1999 Ministry of National Infrastructures ***Petrogenesis of the Amram Massif***. (with L. Halicz; The Geological Survey of Israel), NIS 70,000. (35, 36)
- 1998-2001 Israel Science Foundation (Basic Research Fund) ***Physical and chemical investigation of diamond inclusions: implications for the formation of natural diamonds***. \$ 41,676+\$20,000 for the first year. (24, 38, 42)
- 1999-2002 Binational Science Foundation ***Growth and coalescence of bubbles in silicate melts***. (with J. Holloway and J. Fink, ASU, Tempe, Arizona), \$113,000/120,050. (37, 39)
- 1999-2002 Israel Science Foundation (Basic Research Fund) ***The Evolution of Alkaline Magmatism in the Arabian-Nubian Shield***. (Z. Garfunkel and M. Stein - P.I.s, O. Navon and M. Eyal - C.I.s), No direct funding to me. (40)
- 2001-2004 European Commission 5th Framework ***MULTIMO-Multi disciplinary Monitoring, Modeling and Forecasting of Volcanic Hazard***. (Neuberg (Leeds), Sparks (Bristol), Openhiemer (Cambridge), Dingwell (Munich),

- Aspinal (London), Carniel (Udine), Falsaperla (Catania), Cayol (Clermont-Farrand)) Euro 104,000/1,220,000. (41, 45)
- 2001-2005 Israel Science Foundation (Basic Research Fund), *Chemistry and physics of inclusions in diamonds: inference for the formation of natural diamond* ~\$150,000 (Funding base changed from \$ to NIS after 2 years) (43, 44, 48, ..)
- 2002-2004 INTAS, *Mechanism and dynamics of explosions during lava dome eruptions* (Mader (Bristol), Dingwell (Munich), Melnik (Moscow), Pribaturin (Novosibirsk), Slezin (Petrovavlovsk)) Euro 8,000/100,000 (41)
- 2004-2007 Ministry of National Infrastructures. *The petrogenesis of lower crustal xenoliths from northern Israel* NIS 110,000 for three years.
- 2005-2009 Binational Science Foundation, *Volatiles and diamonds in kimberlites: Possible connection and implications for ascending kimberlites* (With D. Bell and L. Lashin, ASU, Tempe, AZ), \$36800/44000 for the first year
- 2007-2011 Israel Science Foundation *Bubble nucleation in viscous melts* \$156,500 for four years
- 2012-2016 Israel Science Foundation, *Are all diamonds created equal? Diamond-forming fluids in monocrystalline and fibrous diamonds* NIS 800,000 for 4 years
- 2016-2019 Germany Israel Foundation, *Diamond formation and incipient melting of mantle rocks - the role of eclogite*, Euro 180,000 for 3 years
- 2017-2021 Israel Science Foundation, *Tracing mantle forming fluids in mantle processes* NIS 835,000 for 4 years.

8. TEACHING

A. GRADUATE STUDENTS:

- M.Sc.** ***Yishai Weinstein***, graduated 1992, with Dr. B. Lang
The Petrology of Pleistocene Basalts from Mt. Avital, Northern Golan Heights
at present: Professor, Bar Ilan University, Israel
(15)
- Shaul Hurwitz***, graduated 1994
Bubble nucleation and growth in silicic magmas
at present: a senior researcher at the USGS, Menlo Park, CA, USA
(14, 17)
- Ronit Kessel***, graduated 1995, with Dr. Moti Stein
Petrology and Geochemistry of dykes in the Elat Region
at present: Associated Professor, The Hebrew University of Jerusalem, Israel
(19,21)
- Ari Matmon***, graduated 1995
The Solubility of Minerals in Hydrous Fluids at High Pressures and Temperatures - A diamond anvil cell study

at present: Professor, The Hebrew University of Jerusalem, Israel

Amit Mushkin, graduated 2000, with Dr. Moti Stein and Dr. Ludwig Halicz
The Petrogenesis of the rocks of Amram Massif

at present: Senior Researcher at the Geological Survey of Israel

(26, 27,31)

Orna Gazit, graduated 2005, with Prof. Moti Stein and Dr. Ludwig Halicz
Petrology and geochemistry of lower crustal xenoliths from northern Israel.

at present, IBM Israel.

Uri Shaanan, graduated 2009, with Dr. Y. Weinstein and Dr. R. Weinberger
The volcanology of Birket Ram maar complex.

at present: a post-doctorate fellow, The Hebrew University of Jerusalem

(51)

Ayelet Don, graduated 2009, with Dr. Moti Stein and Dr. Ludwig Halicz
Petrology and geochemistry of Pan African granites in the Eilat region.

At present: a high school teacher

(58)

Moran Luckitz, graduated 2011, with Dr. Ronit Kessel.

The composition of Mantle fluids in equilibrium with hydrated and carbonated eclogite and diamonds.

at present: a geological consultant, Geoprospect, Jerusalem

Matat Jablon, graduated 2015

The role of high-density fluids in the growth of monocrystalline diamonds

at present, a Ph.D. student in Physics, Strathclyde University, Scotland

(62,63)

Oded Elazar, graduated 2015, with Ronit Kessel

The eclogite+water+carbonate system at high pressure and temperature

At present: a Ph.D. student, the Hebrew University

Reed Mershon, 2018-2021

Microinclusions in super-deep diamonds

Ph.D.

Marcus Schrauder, graduated 1997, The U. of Vienna, with Prof. Ch. Koeberl
Fluids in Diamonds from Africa, Russia and India

at present: Gemstone merchant at Vienna and a free diver

(12, 13, 18)

Yishai Weinstein, graduated 1998, with Prof. Z. Garfunkel, Dr. G. Steinitz,
and Dr. Moti Stein

Intracontinental Alkali Basalts in NE Israel

at present: Prof., Bar Ilan University, Israel

(40)

Elad Izraeli, graduated 2002

Chemical and physical characterization of Inclusions in Diamonds

at present: Researcher, Forensic Identification, Israeli police

(25, 29, 33)

Nadav Lensky, graduated 2004, with Dr. Vladimir Lyakhovsky

The dynamics of bubble growth in Volcanic Eruptions

At present: Senior Researcher, Geological Survey of Israel

(28, 30, 32, 38, 39, 45)

Ofra Klein-BenDavid, graduated 2005

Diamond forming fluids in micro-inclusions in diamonds from Canada

at present: Senior Researcher, Nuclear Research Center, Negev

(34, 36, 41, 42, 46)

Ittai Kurzon, graduated 2010, with Dr. Vladimir Lyakhovsky

The interaction of Seismic waves with bubbly medium

at present: Researcher, The geological Survey of Israel

(44, 51, 53)

Ornit Maimon, graduated 2012, with Dr. Vladimir Lyakhovsky

The role of bubbles in propagating dykes

At present: A teacher and a lecturer at Tel-Hai College

(55)

Yakov Weiss, graduated 2012

Diamond forming fluids and their relation to kimberlitic magmas

At present: Senior Lecturer, The Hebrew University of Jerusalem

(43, 47, 48, 50, 54)

Oded Elazar, 2015-, with Dr. Ronit Kessel

(69)

Yael Kempe, 2017-, with Dr. Yaakov Weiss

Inclusions in diamonds from the Venetia and Voorspoed mines, RSA

Postdoctoral Omri Dvir, 2017-2018

Diamond analyses with EPMA

fellows

Janina Czas, 2019-, with Dr. Yaakov Weiss

Molecular CO₂ in diamond nano-inclusions

B. COURSES

- **Introduction to Geology for Geographers**, required for all 1st year geography students (4 credits, Lecture + exercise + fieldtrips).
- **Principles of Geology**, B.A. A Cornerstone distribution course for students in Social Sciences and Humanities (2 credits, Lecture).

- **Volcanology Fieldtrip**, 3rd year B.Sc. and graduate students (2 credits, 3 days in Golan and Galilee).
- **Advanced Magmatic Petrology**, 3rd year B.Sc. and graduate students (2 credits, lecture + student presentations)

Courses taught in the past (last time indicated)

- **The Dead Sea: from plate-tectonics to climate change**, a Cornerstones distribution course for Social sciences and Humanities students (2016, 2 credits, Lectures, with M. Stein)
- **Rock Tales: Planet Earth and Us**, a Cornerstones distribution course for Social sciences and Humanities students (2013, 2 credits, Lectures)
- **Rock, Minerals, Maps and Cross-sections**, Basic Mineralogy and Petrology for 1st year Geology students + introduction to preparation and interpretation of geological maps and cross-sections + 2 days field mapping (2008, 4.5 credits, Lectures + exercises + field camp).
- **Basic Mapping Field Camp**, required for all 2nd year geology students (2015, 4.5 credits, 6 days in the Elat area).
- **Undergraduate Students Seminar**, required for all 3rd year geology students (Spring 2004, 2 credits, student presentations + discussions).
- **Igneous and Metamorphic Petrology**, 2nd and 3rd year B.Sc. in Geology (Spring 2004, 5 credits, Lectures + labs + 1 day fieldtrip, I taught the igneous petrology part).
- **Natural Hazards** Environmental students (I lectured the first quarter of the course on Volcanic Hazards, Spring 2000, 3 credits, Lectures).
- **Geology, Chemistry and Physics of Diamonds**, 3rd year B.Sc. and graduate students (Spring 1997, 2 credits, Lectures)
- **Introduction to Geochemistry**, required for all 2nd year geology students (Fall 1994, 5 credits, lecture + exercise).

LIST OF PUBLICATIONS

a. Ph.D. Thesis:

1. Navon, O. (1989) Chemical and mineralogical characterization of micro-inclusions in diamonds. Ph.D. thesis, California Institute of Technology, Pasadena, California (Adviser: G.J. Wasserburg).

b. Books (editing)

2. Salt of the Earth, a memorial to Dead Sea pioneers Moshe Novomeysky and Moshe Langotsky (ed. Navon O.), Magnes, Jerusalem, v.1, (2005) 152pp; v.2 (2006) 128pp; v.3 (2008) 135pp; v.4 (2009, co-editor, with A. Starinsky) 142pp (Popular scientific papers in Hebrew on the earth sciences and other sciences related to the Dead Sea).

Refereed Papers (in journals and proceedings):

3. Kolodny, Y., Luz, B. and Navon, O. (1983) Oxygen isotopic variations in phosphate of biogenic apatite. I. Fishbone apatite: rechecking the rules of the game. Earth and Planetary Science Letters, 64: 398-404. (302)

4. Navon, O. and Reymer, A.P.S. (1984) Stratigraphy, structures and metamorphism of Pan-African age in central Wadi Kid, southeastern Sinai. *Israel Journal of Earth Sciences*, 33: 135-149. (14)
5. Reymer, A.P.S. Matthews, A. and Navon, O. (1984) Pressure-temperature conditions in the Wadi Kid metamorphic complex: implications for the Pan-African event in SE Sinai. *Contribution to Mineralogy and Petrology*, 85: 336-345. (39)
6. Navon, O. and Wasserburg, G.J. (1985) Self-shielding in O₂: a possible explanation for oxygen anomalies in meteorites? *Earth and Planetary Science Letters*, 73: 1-16. (51)
7. Navon, O. and Stolper, E. (1987) Geochemical consequences of melt percolation: the upper mantle as an ion-exchange column. *Journal of Geology*, 95: 285-307. (538)
8. Navon, O., Hutcheon, I.D., Rossman, G.R., and Wasserburg, G.J. (1988) Mantle-derived fluids in diamond micro-inclusions. *Nature* 335: 784-789. (331)
9. Guthrie, G.D., Veblen, D.R., Navon, O., and Rossman, G.R. (1991) Submicrometer fluid-inclusions in turbid-diamond coats. *Earth and Planetary Science Letters*, 105: 1-12. (64)
10. Navon, O. (1991) Infrared determination of high internal pressures in diamond fluid inclusions. *Nature* 353: 746-748. (115)
11. Marco, S., Ron, H., Matthews, A., Beyth, M., and Navon, O. (1993) Chemical remnant magnetism related to the Dead Sea Rift: evidence from Pan African igneous rocks of Timna, Southern Israel. *Journal of Geophysical Research*, 98: 16001-16012. (3)
12. Schrauder, M. and Navon, O. (1993) Solid carbon dioxide in a natural diamond. *Nature* 365: 42-44. (104)
13. Schrauder, M. and Navon, O. (1994) Hydrous and carbonatitic fluids in fibrous diamonds from Jwaneng, Botswana. *Geochimica et Cosmochimica Acta*, 58: 761-771. (254)
14. Hurwitz, S. and Navon, O. (1994) Bubble nucleation in rhyolitic melts: experiments at high pressure, temperature, and water content. *Earth and Planetary Science Letters*, 122, 267-280. (202)
15. Weinstein, Y. Navon, O. and Lang, B. (1994) Fractionation of Pleistocene alkali basalts from the northern Golan Height, Israel. *Israel Journal of Earth Science*, 43, 63-79.
16. Navon, O., Frey, F.A. and Takazawa, E. (1996) Discussion of "Magma transport and metasomatism in the mantle: a critical review of current geochemical models" by J.E. Nielson and H.G. Wilshire. *American Mineralogist* 81, 774-779. (11)
17. Lyakhovskiy, V., Hurwitz, S. and Navon, O. (1996) Bubble growth in rhyolitic melt: experimental and numerical investigation. *Bulletin of Volcanology* 58, 19-32. (94)
18. Schrauder, M., Koeberl, C., and Navon, O. (1996) Trace element analysis of fluid-bearing diamonds from Jwaneng (Botswana). *Geochimica et Cosmochimica Acta* 60, 4711-4724. (73)
19. Stein, M., Navon, O. and Kessel R. (1997) Chromatographic metasomatism of the Arabian-Nubian lithosphere *Earth and Planetary Science Letters*, 152, 75-91. (56)

20. Navon, O., Chekhmir, A. and Lyakhovsky, V. (1998) Bubble growth in highly viscous melts: theory, experiments, and autoexplosivity of dome lavas. *Earth and Planetary Science Letters*, 160, 763-776. (110)
21. Kessel, R., Stein, M. and Navon, O. (1998) Petrogenesis of late Proterozoic dykes and alkali granites from the Elat and Amram massifs, the northern Arabian-Nubian Shield. *Precambrian Research*. 92, 195-213. (47)
22. Navon, O. and Lyakhovsky, V. (1998) Vesiculation processes in Silicic Magmas. In: Gilbert, J. and Sparks R.S.J. (eds.) *The Physics of Explosive Volcanism Geol. Soc. Lond., Spec. Publ.* 145, 29-52.
23. Cashman, K. Sturtevant, B., Papale, P. and Navon O. (1999) Magmatic Fragmentation. In *The Encyclopedia of Volcanology*, (ed. H. Sigurdsson), Academic Press, pp. 421-430.
24. Navon, O. (1999) Formation of diamonds in the Earth's Mantle. In: Gurney, J.J., Gurney, J.L., Pasque, M.D. and Richardson, S.H. (eds.) *Proc. of the VIIth International Kimberlitic Conference*, Red Roof Design, Cape Town, South Africa, pp. 584-604.
25. Izraeli, E.S., Harris, J.W. and Navon O. (1999) Raman barometry of diamond formation. *Earth and Planetary Science Letters*, 173, 351-360. (85)
26. Mushkin, A., Navon, O., Halicz, L., Heimann, A., Woerner, G. and Stein, M. (1999) Geology and Geochronology of the Amram Massif, Southern Negev, *Israel Journal of Earth Sciences*, 48, 179-193.
27. Mushkin A., Stein, M. and Navon, O. (2000) Rb-Sr chronology of Amram Massif: reply to a comment. *Israel Journal of Earth Sciences*. 49, 253-255.
28. Lensky, N., Lyakhovsky, V. and Navon, O. (2001) Radial Variation of melt viscosity around growing bubbles and gas overpressure in vesiculating magmas. *Earth and Planetary Science Letters*, 186, 1-6. (33)
29. Izraeli, E.S., Harris, J.W. and Navon O. (2001) Brine inclusions in diamonds: A new upper mantle fluid. *Earth and Planetary Science Letters*, 187, 323-332. (182)
30. Lensky, N., Lyakhovsky, V. and Navon, O. (2002) Expansion dynamics of volatile-supersaturated fluid and bulk viscosity of bubbly magmas. *Journal of Fluid Mechanics*, 460, 39-56. (22)
31. Mushkin, A., Navon, O., Halicz, L., Hartmann, G. and Stein, M. (2003) The petrogenesis of A-type magmas from the Amram Massif, *southern Journal of Petrology*, 44, 815-832. (150)
32. Lensky, N., Lyakhovsky, V. and Navon, O. (2004) Bubble growth during decompression of magma: Experimental and theoretical investigation *Journal of Volcanology Geotherm. Res.* 129, 7-22. (68)
33. Izraeli, E.S., Harris, J.W. and Navon, O. (2004) Fluid and Mineral inclusions in cloudy diamonds from Koffiefontein, South Africa. *Geochimica et Cosmochimica Acta*, 68 (11): 2561-2575. (74)
34. Klien-BenDavid, O., Izraeli, E.S., Hauri, E. and Navon, O. (2004) Mantle fluid evolution – a tale of one diamond, *Lithos*, 77 (1-4), 243-253. (94)

35. Shiryaev, A.A., Izraeli, E.S., Hauri, E.H., Zakharchenko, O.D. and Navon, O. (2005) Chemical, optical and isotopic investigation of fibrous diamonds from Brazil. *Russian Geology and Geophysics*, 46 (12), 1185-1201. (33)
36. Klien-BenDavid, O., Wirth, R. and Navon, O. (2006) TEM imaging and analysis of microinclusions in diamonds: a close look at diamond growing fluids, *American Mineralogist* 91, 353-365. (75)
37. Neuberg, J., Navon, O. and Carniel, R. (2006) Special issue - MULTIMO: Multi-parameter monitoring, modelling and forecasting of volcanic hazard – Results from a European project - Foreword. *Journal of volcanology and Geothermal Research*, 153, VII-VII. (6)
38. Collier, L., Neuberg, J., Lensky N., Lyakhovsky, V. and Navon, O. (2006) Attenuation in gas-charged magma. *Journal of volcanology and Geothermal Research*, 153, 21-36 (16)
39. Lensky, N.G., Niebo, R.W., Holloway, J.R., Lyakhovsky, V. and Navon, O. (2006) Bubble nucleation as a trigger for xenolith entrapment in mantle melts. *Earth and Planetary Science Letters*, 245, 278-288 (33)
40. Weinstein, Y., Navon, O., Altherr, R. and Stein M. (2006) The role of lithospheric mantle heterogeneity in the generation of Plio-Pleistocene alkali basaltic suites from NW Harrat Ash Shaam (Israel). *Journal of Petrology*, 47(6), 1017-1050. (79)
41. Klien-BenDavid, O., Wirth, R. and Navon, O. (2006) TEM imaging and analysis of micro-inclusions in diamonds: a close look at diamond-growing fluids. *Earth and Planetary Science Letters*. 264, 89-103. (32)
42. Klien-BenDavid, O., Izraeli E.S., Hauri, E. and Navon, O. (2007) Fluid inclusions in diamonds from the Diavik Mine, Canada and the evolution of diamond forming fluids, *Geochimica et Cosmochimica Acta*, 71, 723-744. (143)
43. Weiss, Y., Griffin, W. L. Elhlou, S. and Navon, O. (2008) Comparison between LAM-ICPMS and EPMA analysis of trace elements in diamonds. *Chemical Geology* 252, 158-168 (36)
44. Kurzon, I., Lyakhovsky, V., Navon, O. and Lensky, N.G. (2008) Damping of pressure waves in visco-elastic, saturated bubbly magma. In *Fluid Motion in Volcanic Conduits: A Source of Seismic and Acoustic Signals* (Gilbert J. and Lane S.J., eds) Geological Society of London, Special Publication, 307, 11-31.
45. Lensky N.G., Sparks R.S.J., Navon O. and Lyakhovsky, V. (2008) Cyclic activity at Soufrière Hills Volcano, Montserrat: degassing-induced pressurization and stick-slip extrusion. In *Fluid Motion in Volcanic Conduits: A Source of Seismic and Acoustic Signals* (Gilbert J. and Lane S.J., eds) Geological Society of London, Special Publication, 307, 169-188.
46. Klein-BenDavid, O., Logvinova, A.M., Schrauder, M., Spetius, Z.V., Weiss, Y., Hauri, E. Kaminsky, F.V., Sobolev N.V. and Navon, O. (2009) High-Mg carbonatitic microinclusions in some Yakutian Diamonds - a new type of diamond-forming fluid. *Lithos*, 112, 648-659. (105)
47. Kamenetsky, V.S., Kamenetsky, M.B., Weiss, Y., Navon, O., Nielsen, T.F.D. and Mernagh, T.P. (2009) How unique is the Udachnaya-East kimberlite? Comparison with

- kimberlites from the Slave Craton (Canada) and SW Greenland. *Lithos*, 112, 334-346. (66)
48. Weiss, Y., Kessel, R., Griffin, W.L., Kiflawi, I., Klein-BenDavid, O., Bell, D.R., Harris, J.W. and Navon, O. (2009) A new model for the evolution of diamond forming fluids: evidence from microinclusions-bearing diamonds from Kankan, Guinea. *Lithos*, 112, 660-674. (76)
 49. Kopylova, M., Navon, O., Dubrovinsky, L. and Khachatryan, G. (2010) Carbonatitic mineralogy of natural diamond-forming fluids. *Earth and Planetary Science Letters*, 291 (1-4): 126-137. (30)
 50. Weiss, Y., Kiflawi, I. and Navon, O. (2010) IR spectroscopy: Quantitative determination of the mineralogy and bulk composition of fluid microinclusions in diamonds. *Chemical Geology*, 275 (1-2): 26-34. (14)
 51. Kurzon I, Lyakhovsky, V. and Navon, O. (2011) Bubble growth in visco-elastic magma: Implications to magma fragmentation and bubble nucleation. *Bulletin of Volcanology*, 73: 39-54, DOI 10.1007/500445-010-0402-7. ()
 52. Shaanan, U., Porat, N., Navon, O., Weinberger, R., Calvert, A. and Weinstein, Y. (2011) OSL dating of a Pleistocene maar: Birket Ram, the Golan heights. *Journal of Volcanology and Hydrothermal Research*, 201: 397-403, DOI: 10.1016/j.jvolgeores.2010.06.007 (7)
 53. Kurzon I, Lyakhovsky, V., Navon, O. and Chouet, B. (2011) Pressure waves in a supersaturated bubbly magma. *Geological Journal International*, DOI: 10.1111/j.1365-246X.2011.05152.x. (2)
 54. Weiss, Y., Griffin, W. L., Bell, D. R. and Navon O. (2011) High-Mg carbonatitic melts in diamonds, kimberlites and the sub-continental lithosphere. *Earth and Planetary Science Letters*, 309: 337-347, DOI: 10.1016/j.epsl.2011.07.012.
 55. Smith, EM, Kopylova, MG, Dubrovinsky, L. Navon, O., Ryder J. and Tomlinson, EL (2011) Transmission X-ray diffraction as a new tool for diamond fluid inclusion studies. *Mineralogical magazine*, 75, 2657-2675. DOI: 10.1180/minmag.2011.075.5.2657. (10)
 56. Maimon, O., Lyakhovsky, V., Melnik, O. and Navon, O. (2012) The propagation of a dyke driven by gas-saturated magma. *Geophysical Journal International*, 189, 956-966. doi: 10.1111/j.1365-246X.2012.05342.x (4)
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