

Papers in progress

- “Can Price Matching Mitigate Strategic Consumer Behavior?” (with Y. Aviv, Y. Levin and M. Nediak)
- “Quantity Competition in the Presence of Strategic Consumers” (with Y. Levin and M. Nediak, submitted)
- “Quantity Premiums and Discounts in Dynamic Pricing” (with Y. Levin and M. Nediak, Operations Research, submitted revision)
- “Inefficiency and Sustainability”
- “Intertemporally Dependant Preferences: Variants of Optimal Growth in a Resource-Based Economy”

Articles in refereed journals

- “Constant-Utility Paths in a Resource-Based Economy.” *Resource and Energy Economics*, Vol. 35, Iss. 3, 2013, pp. 342 – 355.
- “A Closed-Form Solution to Stollery’s Problem with Damage in Utility.” *Computational Economics*, Vol. 39, Iss. 4, 2012, pp. 365 – 386.
- “The Dependence of the Potential Sustainability of an Economy on the Initial State: A Comparison of Models Using the Example of Russian Oil Extraction.” *The Journal of the New Economic Association*, 2011, Iss. 12, pp. 1 – 20.
- “Sustainable Growth: Compatibility between a Plausible Growth Criterion and the Initial State.” *Resources Policy*, Vol. 35, Iss. 2, 2010, pp. 116 – 125.
- (With A.S. Vyskrebentsev) “The Adequacy of Hubbert’s Curves for the Forecasting of the Rates of Oil Extraction.” *Izvestiya VUZov: Neft & Gas*, 2008, No 2, pp. 41 – 48 (in Russian).
- (With N.A. Mel’nichenko, A.M. Koltunov, A.S. Vyskrebentsev) “The Temperature Dependence of the Solubility of Oxygen in Sea Water According to the Pulsed NMR Data.” *Russian Journal of Physical Chemistry A*, 2008, Vol. 82, No. 5, pp. 746 – 752.
- “The Transition to an Oil Contraction Economy.” *Ecological Economics*, Vol. 64, No 1, 2007, pp. 186 – 193.
- “Variation Principles for Modeling in Resource Economics.” *Vestnik DVO RAN*, No 6, 2006, pp. 5 – 13 (in Russian).
- (With N.A. Mel’nichenko, A.S. Kupriyanov) “Temperature Dependence of the Rate of NMR Relaxation in Some Aqueous Solutions of Electrolytes of Semi-Molar Concentration.” *Journal of Structural Chemistry*, Vol. 44, No. 3, 2003 pp. 446 – 453 (in Russian).

- (With N.A. Mel'nichenko, A.S. Kupriyanov) "The Influence of Ion Hydration Numbers in Aqueous Solutions of Electrolytes on the Activation Energies of Molecular Motions According to NMR Relaxation Data." *Russian Journal of Physical Chemistry*, Vol. 76, No 5, 2002, pp. 757 – 761.

- "A Sufficient Condition for the Convergence of a Decomposition Method." *Vestnik LGU*, Ser. 1, 1986, Iss. 3, pp. 91 – 93 (in Russian).

- "The Result of Decomposition Use in Optimization of a Vibrating System." *Vestnik LGU*, Ser.1, 1986, Iss. 2, pp. 95 – 96 (in Russian).

Book chapters

- "Decomposition in Optimization Problems for Finite-Element Systems." In: *Technology and Tools for the Complex Systems Simulation*. Ed. I.D. Kochubievsky. Far Eastern State University, Vladivostok, 1992, pp. 18 – 31 (in Russian).

Books

- "Introduction to Options and Futures." Vladivostok, Far Eastern National University (FENU), 2004 (in Russian).

- (With N.A. Bazhanova) "Mathematical Methods and Models in Economics." Vladivostok, FENU, 2001 (in Russian).

Working papers, conference proceedings, and others

- "Quantity Competition in the Presence of Strategic Consumers" (December 23, 2013).

Available at SSRN:

<http://ssrn.com/abstract=2371728> or <http://dx.doi.org/10.2139/ssrn.2371728> (with Y. Levin and M.

Nediak).

- "Inefficiency and Sustainability". *MPRA Paper No 51815*, December 4, 2013.

<http://mpra.ub.unimuenchen.de/51815/>

- "Disregarded Inefficiency May Dominate Sustainability Policies." *MPRA Paper No. 43621*, January 8, 2013.

- "Investment and Current Utility Change in Dynamically Inefficient Economies." *MPRA Paper No. 35487*, December 20, 2011.

- "Investment and Resource Policy under a Modified Hotelling Rule." *MPRA Paper No. 34656*, November 11, 2011.

- "The Analysis of the Consequences of Russia's Energy Strategy: An Open Model." In: *Proceedings of the 7th Intern. Conference "Power Supply and Energy Efficiency in Agriculture," Part 1, "Problems of Energy*

Supply and Energy Saving,” Moscow, GNU VIESH, May 18 – 19, 2010, pp. 406 – 411 (in Russian).

- “A Closed Form Solution to Stollery’s Global Warming Problem with Temperature in Utility.” *MPRA Paper* No. 22406, May 04, 2010.
- “Maximin-optimal sustainable growth in a resource-based imperfect economy.” *MPRA Paper* No. 19258, December 12, 2009.
- (With A.A. Belyaev) “Adequacy of a Closed Model for Russian Economy in the Problem of Comparative Analysis of Russia's Energy Strategy.” *MPRA Paper* No. 15109, May 09, 2009 (in Russian).
- “A Constant-Utility Criterion Linked to an Imperfect Economy Affected by Irreversible Global Warming.” *EERI Research Paper Series* No 03/2009.
- “Maximin-Optimal Sustainable Growth with Nonrenewable Resource and Externalities.” *EERI Research Paper Series* No 11/2008. Presented at the AFSE Annual Thematic Meeting “Frontiers in Environmental Economics and Natural Resources Management,” Université de Toulouse, June 9 – 11, 2008 and at the 16th Annual Conference of the EAERE, June 25 – 28, 2008, Gothenburg, Sweden.
- “Sustainable Growth in a Resource-Based Economy: The Extraction-Saving Relationship.” *MPRA Paper* No. 23299, December 24, 2008. Presented at the 42nd Annual Meeting of the Canadian Economic Association, The University of British Columbia, Vancouver, June 6 – 8, 2008.
- (With I.I. Tyukhov) “Russian Energy Strategy and Development of Renewable Power Industry.” In: Proceedings of the 6th International Conference “Power Supply and Energy Efficiency in Agriculture,” Chapter 4, “Renewable Sources of Energy. Local Sources of Power. Ecology,” Moscow, GNU VIESH, May 13 – 14, 2008, pp. 3 – 8 (in Russian).
- (With J.M. Hartwick and Z. Song) “The Extractive Firm’s Cost Spillover Tax for the Extended Hotelling Model.” *Queen’s Economics Department Working Paper* No. 1169, November 2007.
- (With J.M. Hartwick and Z. Song) “Declining Exhaustible Resource Rent with Small, Distinct Extractive Firms.” *Queen’s Economics Department Working Paper* No. 1139, November 2007.
- (With A.A. Andreeva) “Scenarios of Transition to Sustainable Oil Extraction in Russia.” *MPRA Paper* No. 5343, October 16, 2007 (in Russian). Presented at the 8th International Conference of RSEE “Economic Development and the Environment: Strategies, models, management tools,” Sochi, Russia, September 16 – 20, 2007.
- (With J.M. Hartwick) “On Beckmann’s Dispersed ‘Interaction City’.” *Queen’s Economics Department*

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- “Switching to a Sustainable Efficient Extraction Path.” Presented at the 41st Annual Meeting of the Canadian Economic Association, Dalhousie University, Halifax, Nova Scotia, June 1 – 3, 2007.
- “The Peak of Oil Extraction and Consistency of the Government’s Short- and Long-Run Policies.” Presented at the Seminar of School of Economics, Seoul National University, Seoul, March 14, 2007.
- (With N.A. Mel’nichenko, A.M. Koltunov, A.S. Vyskrebentsev) “Temperature Dependence of Oxygen Solvability in Distilled and Sea Water on the Data of Impulse NMR Method on Protons.” Far Eastern National University, *VINITI*, 03.04.07, No 362-B 2007 (in Russian).
- “The Peak of Oil Extraction and a Modified Maximin Principle.” In: Proceedings of the International Conference “Comparative Institution and Political-Economy: Theoretical, Experimental and Empirical Analysis,” Waseda University, Tokyo, December 22 – 23, 2006, pp. 99 – 128.
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- “Decreasing of Oil Extraction: Consumption Behavior along Transition Paths.” *MPRA Paper* No. 469, October 16, 2006.
- (With J.M. Hartwick) “Auctioning New Oil to Oligopolistic Extractive Firms.” Presented at the 40th Annual Meeting of Canadian Economic Association, May 25 – 28, 2006, Concordia University, Montreal.
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- “Modeling of the Extraction of Nonrenewable Resources with the Use of a Variation Principle.” In: Proc. of International Scientific-Practical Conf. “Modeling. Theory, Methods and Tools,” URG TU, Novochoerkassk, 2004, p. 48.
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