

LIST OF PUBLICATIONS

PUBLICATIONS IN PEER-REVIEWED JOURNALS

1. Furedi-Milhofer H., Garti N., Kamyshny A. (1999)
Crystallization from microemulsions - a novel method for the preparation of new crystal forms of aspartame.
Journal of Crystal Growth 199: 1365-1370.
2. Gun J., Goifman A., Shkrob I., Kamyshny A., Ginzburg B., Hadas O., Dor I., Modestov A.D., Lev O. (2000)
Formation of polysulfides in an oxygen rich freshwater lake and their role in the production of volatile sulfur compounds in aquatic systems.
Environmental Science & Technology 34 (22): 4741-4746.
3. Kamyshny A., Goifman A., Rizkov D., Lev O. (2003)
Formation of carbonyl sulfide by the reaction of carbon monoxide and inorganic polysulfides.
Environmental Science & Technology 37 (9): 1865-1872.
4. Furedi-Milhofer H., Kamyshny A., Yano J., Aserin A., Garti N. (2003)
Crystallization of organic compounds in reversed micelles. III. Solubilization of aspartame.
Langmuir 19(15): 5984-5990.
5. Kamyshny Jr. A., Goifman A., Rizkov D., Lev O. (2003)
Kinetics of disproportionation of inorganic polysulfides in undersaturated aqueous solutions at environmentally relevant conditions.
Aquatic Geochemistry 9 (4): 291-304.
6. Gun J., Modestov A.D., Kamyshny A., Ryzkov D., Gitis V., Goifman A., Hultsch V., Grischek T., Worch E. (2004)
Electrospray ionization mass spectrometric analysis of aqueous polysulfide solutions.
Microchimica Acta 146(3-4): 229-237.
7. Goifman A., Ryzkov D., Gun J., Kamyshny Jr. A., Modestov A.D., Lev O. (2004)
Inorganic polysulfides quantitation by methyl iodide derivatization: dimethylpolysulfide formation potential.
Water Science and Technology 49 (9): 179-184.
8. Goifman A., Gun J., Gitis V., Kamyshny A., Lev O., Donner J., Börnick H., Worch, E. (2004)
Pyrolysed carbon supported cobalt porphyrin: a potent catalyst for oxidation of hydrogen sulfide.
Applied Catalysis B: Environmental 54 (4): 225-235.
9. Kamyshny Jr. A., Goifman A., Gun J., Rizkov D., Lev O. (2004)
Equilibrium distribution of polysulfide ions in aqueous solutions at 25°C: a new approach for the study of polysulfides' equilibria.
Environmental Science & Technology 38 (24): 6633-6644.

10. Amrani A., Kamyshny Jr. A., Lev O., Aizenshtat Z. (2006)
Sulfur stable isotope distribution of polysulfide anions in an $(\text{NH}_4)_2\text{S}_n$ aqueous solution.
Inorganic Chemistry 45 (4): 1427 – 1429.
11. Kamyshny Jr. A., Ekeltchik I., Gun J., Lev O. (2006)
Method for the determination of inorganic polysulfide distribution in aquatic systems.
Analytical Chemistry 78 (8), 2631-2639.
12. Kamyshny Jr. A., Gun J., Rizkov D., Voitsekovski T., Lev O. (2007)
Equilibrium distribution of polysulfide ions in aqueous solutions at different temperatures by rapid single phase derivatization.
Environmental Science & Technology 41 (7), 2395 – 2400.
13. Kamyshny Jr. A., Zilberbrand M., Ekeltchik I., Voitsekovski T., Gun J., Lev O. (2008)
Speciation of polysulfides and zerovalent sulfur in sulfide rich water wells in Southern and Central Israel.
Aquatic Geochemistry 14 (2), 171-192.
14. Kamyshny Jr. A. (2009)
Improved cyanolysis protocol for detection of zero-valent sulfur in natural aquatic systems.
Limnology and Oceanography: Methods 7, 442 – 448.
15. Kamyshny Jr. A., Borkenstein C. G., Ferdelman T. G. (2009)
Protocol for quantitative detection of elemental sulfur and polysulfide zero-valent sulfur distribution in natural aquatic samples.
Geostandards and Geoanalytical Research 33, 415 – 435.
16. Kamyshny Jr. A. (2009)
Solubility of cyclooctasulfur in pure water and sea water at different temperatures.
Geochimica et Cosmochimica Acta 73, 6022 – 6028.
17. Kamyshny Jr. A., Ferdelman T. G. (2010)
Dynamics of zero-valent sulfur species including polysulfides at seep sites on intertidal sand flats (Wadden Sea, North Sea).
Marine Chemistry 121, 17 – 26.
18. Zerkle A. L., Kamyshny Jr. A., Kump L. R., Farquhar J., Oduro H., Arthur M. A. (2010)
Sulfur cycling in a stratified lake with moderately high sulfate: constraints from quadruple S isotopes.
Geochimica et Cosmochimica Acta 74, 4953 – 4970.
19. Oduro H., Kamyshny Jr. A., Guo W., Farquhar, J. (2011)
Multiple sulfur isotope analysis of volatile organic sulfur compounds and their sulfonium precursors in coastal marine environments.
Marine Chemistry 124, 78 – 89.

20. Holmkvist L., Kamyshny Jr. A., Vogt C., Vamvakopoulos K., Ferdelman T. G., Jørgensen B. B. (2011)
Sulfate reduction below the sulfate-methane transition in Black Sea sediments.
Deep-Sea Research Part I 58, 493 – 504.
21. Kamyshny Jr, A., Zerkle, A. L., Mansaray, Z. F., Ciglenc̆ki, I., Bura-Nakić, E., Farquhar, J., Ferdelman T. G. (2011)
Biogeochemical sulfur cycling in the water column of a shallow stratified sea-water lake: Speciation and quadruple sulfur isotope composition.
Marine Chemistry 127, 144 – 154.
22. Kamyshny Jr. A., Oduro H., Farquhar J. (2012)
Quantification of free and metal-complexed cyanide by tetrathionate derivatization.
International Journal of Environmental Analytical Chemistry 92, 1506 – 1517.
23. Kamyshny Jr. A., Oduro H., Mansaray, Z. F., Farquhar J. (2013)
Hydrogen cyanide accumulation and transformations in non-polluted salt marsh sediments.
Aquatic Geochemistry 19, 97 – 113.
24. Lichtschlag A., Kamyshny Jr. A., Ferdelman T.G., de Beer D. (2013)
Intermediate sulfur oxidation state compounds in the euxinic surface sediments of the Dvurechenskii Mud Volcano (Black Sea).
Geochimica et Cosmochimica Acta 105, 130 – 145.
25. Farquhar J., Cliff J., Zerkle A.L., Kamyshny Jr. A., Poulton S.W., Claire M., Adams D., Harms B. (2013)
Pathways for Neoproterozoic pyrite formation constrained by mass-independent sulfur isotopes.
Proceedings of the National Academy of Sciences, 110, 17638 – 17643.
26. Oduro, H., Kamyshny Jr. A., Zerkle, A.L., Li, Y., Farquhar, J. (2013)
Quadruple sulfur isotope constraints on the origin and cycling of volatile organic sulfur compounds in a stratified sulfidic lake.
Geochimica et Cosmochimica Acta 120, 251 – 262.
27. Pjevac, P., Kamyshny Jr. A., Dykstra, S., Musmann, M. (2014)
Microbial consumption of zero-valence sulfur (S^0) in marine benthic habitats.
Environmental Microbiology, 16, 3416-3430.
28. Kamyshny Jr., A., Druschel, G., Mansaray, Z. F., Farquhar J. (2014)
Multiple sulfur isotopes fractionation evidence of abiotic sulfur transformations in Yellowstone National Park geothermal springs.
Geochemical Transactions, 15:7.
29. Holmkvist, L., Kamyshny Jr., A., Brüchert V., Ferdelman T. G., Jørgensen, B. B. (2014)
Sulfidization of lacustrine glacial clay upon Holocene marine transgression (Arkona Basin, Baltic Sea).
Geochimica et Cosmochimica Acta, 142, 75-94.

30. Mirzoyan, N., Kamyshny Jr., A., Halevy, I. (2014)
An improved pyrite pretreatment protocol for kinetic and isotopic studies.
Geochemical Transactions, 15:10.
31. Knossow, N., Blonder, B., Eckert, W., Turchyn, A. V., Antler, G., Kamyshny Jr., A. (2015)
Annual sulfur cycle in a warm monomictic lake with sub-millimolar sulfate concentrations.
Geochemical Transactions, 16:7.

BOOK CHAPTER

1. Kamyshny Jr. A., Yakushev E.V., Jost G., Podymov O.I. (2013)
Role of Sulfide Oxidation Intermediates in the Redox Balance of the Oxidic-Anoxic Interface of the Gotland Deep, Baltic Sea
In "Chemical Structure of Pelagic Redox Interfaces: Observations and Modeling",
Yakushev E. V. (Ed.), Springer, pp. 95-119.

PATENTS

1. Milhofer, Helga F.; Garti, Nissim; Kamishny, Alexey, United States Patent, 6,294,686. 2001.
2. Milhofer, Helga F.; Garti, Nissim; Kamishny, Alexey, European Patent, EP 1025117, 2001.

PRESENTATIONS AT CONFERENCES

1. International Symposium on Sweeteners, Jerusalem, Israel, July 1996 – Poster Presentation.
2. ISEAC 32 (32th International Symposium on Environmental Analytical Chemistry), Plymouth, UK, June 2002 – Poster Presentation.
3. Gordon Research Conference on Chemical Oceanography, Oxford, UK, August 2002 – Poster Presentation.
4. Gordon Research Conference on Chemical Oceanography, Tilton, NH, August 2003 – Poster Presentation.
5. EMEC 5 (5th European Meeting on Environmental Chemistry), Bari, Italy, December 2004 – Oral Presentation “Novel Method of Inorganic Polysulfide Speciation Analysis in Natural Waters”.
6. Gordon Research Conference on Chemical Oceanography, Tilton, NH, August 2005 – Poster Presentation.

7. ISEAC 34 (34th International Symposium on Environmental Analytical Chemistry), Hamburg, Germany, June 2006 – Oral Presentation “Speciation of Inorganic Polysulfide in Environmental Aquatic Samples.”
8. 1st European Chemistry Congress, Budapest, Hungary, August 2006 – Poster Presentation.
9. IWOMA (International Workshop on Marine Aggregates), Bremen, Germany, December 2006 – Poster and Oral Presentation “Formation and Coagulation of Colloidal Sulfur in Wadden Sea Tidal Flat Pools”.
10. Gordon Research Conference on Chemical Oceanography, Tilton, NH, August 2007 – Poster Presentation.
11. Goldschmidt – 2007, Cologne, Germany, August 2007 – Poster Presentation.
12. Euroanalysis XIV, Antwerp, Belgium, September 2007 – Oral Presentation “Novel Protocol for Quantitative Detection of Zero-Valent sulfur Species in Natural Aquatic Systems: Applications for Bacterial Cultures, Sedimentary Pore-Waters and Sulfide Rich Marine Surface Waters”.
13. International Conference “The Oceans in the Earth System” and 97th Annual Meeting of the “Geologische Vereinigung e.V.”, Bremen, Germany, October 2007 – Oral Presentation: “Speciation of Zero-Valent Sulfur in Surface Waters of Wadden Sea Tidal Flat Pools”.
14. 1st International Conference G16 – Research Frontiers in Chalcogen Cycle Science and Technology, Wageningen, Netherlands, May 2008 – Poster and Oral Presentation “Improved Cyanolysis Protocol for Detection of Dissolved, Colloidal, Polysulfide and Polythionate Zero-Valent Sulfur in Natural Aquatic Systems”.
15. Goldschmidt – 2008, Vancouver, Canada, July 2008 – Oral Presentation “Sulfide Oxidation Intermediates in Anoxic Sediments of Black and Baltic Seas: Differences and Similarities”, session co-chairing.
16. Goldschmidt – 2009, Davos, Switzerland, June 2009 – Oral Presentation “Zero-Valent Sulfur – Thiosulfate Redox Anomaly at the Chemoclines of Stratified Basins”.
17. Gordon Research Conference on Chemical Oceanography, Tilton, NH, August 2009 – Poster Presentation.
18. 24th International Meeting on Organic Geochemistry, Bremen, Germany, September 2009 – Poster Presentation.
19. Ocean Sciences Meeting – 2010, Portland, Oregon, February 2010 – Poster Presentation, session co-chairing.

20. Goldschmidt – 2010, Knoxville, Tennessee, USA, June 2010 – Oral Presentation “Solubility of α -S₈ in water as a function of temperature, salinity and sulfide concentration”.
21. Gordon Research Conference on Geobiology, Ventura, CA, January-February 2011 – Poster Presentation.
22. European Geosciences Union General Assembly 2011, Vienna, Austria, April 2011 – Oral Presentation “Biogeochemical sulfur cycling in the water column of a shallow stratified sea-water lake: Speciation and quadruple sulfur isotope composition”.
23. Goldschmidt – 2011, Prague, Czech Republic, August 2011 – Oral Presentation “Multiple sulfur isotope fractionation during sulfur cycling in a warm, monomictic lake with sub-millimolar sulfate concentration”.
24. Isranalytica – 2012, Tel Aviv, Israel, January 2012 – Keynote Oral Presentation "Quantification of free and metal-complexed cyanide by tetrathionate derivatization".
25. Goldschmidt – 2012, Montreal, Canada, June 2012 – Invited Oral Presentation "Sulfur isotope systematics of sulfide oxidation intermediates: implications for organic geochemistry".
26. CSIRO Cutting Edge Science Symposium, Frontiers in Sulfur Biogeochemistry, Gold Coast, March 2013 – Invited Plenary Presentation "Quantification and multiple isotope composition analysis of sulfur species in natural aquatic systems".
27. American Chemical Society Spring 2013 National Meeting, New Orleans, USA, April 2013 – Oral Presentation “Multiple sulfur isotopes fractionation during abiotic sulfur transformations in Yellowstone National Park geothermal springs”, session co-chairing.
28. Goldschmidt – 2013, Florence, Italy, August 2013 – Poster Presentation.
29. Ocean Sciences Meeting – 2014, Honolulu, Hawaii, February 2014 – Poster Presentation.
30. ISF-NSFC Workshop: Frontiers in Isotope Geochemistry, Beijing, China, November 2014 – Oral presentation.
31. Annual Meeting of the Israel Chemical Society, Tel-Aviv, Israel, February 2015 - Oral Presentation "Biogeochemical sulfur transformations in modern and ancient aquatic systems: Multiple isotope approach."
32. Annual Meeting of the Israel Geological Society, Kinar Beach, Israel, March 2015 - Oral Presentation "Multiple sulfur isotopes fractionation associated with abiotic sulfur transformations in Yellowstone National Park geothermal springs."

33. EMBO Workshop on Microbial Sulfur Metabolism, Helsingør, Denmark, April 2015 - Poster Presentation.
34. Isotopes – 2015 Conference, Jerusalem, Israel, June 2015 – Oral Presentation "Sulfur cycling in a freshwater lake with sub-millimolar sulfate concentrations".
35. Gordon Research Conference on Chemical Oceanography, Holderness, NH, July 2015 – Poster Presentation.
36. Goldschmidt – 2015, Prague, Czech Republic, August 2015 - Oral Presentation "Triple sulfur isotopes fractionations associated with abiotic sulfur transformations in Yellowstone National Park hydrothermal springs".
37. Annual Meeting of the Israel Geological Society, Eilat, Israel, January 2016 - Oral Presentation "Critical Evaluation of metal-based paleo-proxies from marine systems affected by aeolian dry deposition: Gulf of Aqaba, Red Sea."

INVITED SEMINARS

1. November 2004 – Max Planck Institute for Marine Microbiology, Bremen, Germany
2. October 2006 – Wageningen University, Wageningen, Netherlands
3. April 2007 – Technion, Haifa, Israel
4. April 2007 – Israel Oceanographic and Limnological Research, Haifa, Israel
5. April 2007 – Hebrew University, Jerusalem, Israel
6. April 2007 – Ben-Gurion University, Sde-Boker, Israel
7. October 2008 – University of Delaware, Lewes, DE, USA
8. September 2009 – Institute "Ruđer Bošković", Zagreb, Croatia
9. December 2009 – Hebrew University, Jerusalem, Israel
10. December 2009 – Weizmann Institute of Science, Rehovot, Israel
11. January 2010 – Eilat Interuniversity Institute, Eilat, Israel
12. November 2010 – Weizmann Institute of Science, Rehovot, Israel
13. June 2011 – University of Bayreuth, Bayreuth, Germany. Quadruple sulfur isotope systematics of the Yellowstone National Park springs and pools.
14. November 2011 – The Yigal Allon Kinneret Limnological Laboratory, Migdal, Israel
15. April 2014 – The Yigal Allon Kinneret Limnological Laboratory, Migdal, Israel
16. December 2014 – Hebrew University, Jerusalem, Israel
17. January 2015 – Geological Survey of Israel, Jerusalem, Israel
18. June 2015 – Eilat Interuniversity Institute, Eilat, Israel