

LIST OF PUBLICATIONS OF PROF. DR. LADISLAV KVASZ

A - Books

- 1998 *O revolúciách vo vede a ruptúrach v jazyku vedy*. (On Revolutions in Science and Ruptures in Scientific Language.) Comenius University Press, Bratislava, 208 pp.
- 2002 *Appraising Lakatos. Mathematics, Methodology and the Man*. Kluwer Academic Publishers, Dordrecht. (Coeditors: George Kamps and Michael Stoeltzner).
- 2008 *Patterns of Change, Linguistic Innovations in the Development of Classical Mathematics*. Birkhäuser Verlag AG, Basel, 261 pp.
- 2012a *Language in Change. Fernando Gil International Prize 2010*. Fundacao Calouste Gulbenkian, Lisbon, 47pp.
- 2012b *Jazyk a zmena. Ako sme menili jazyk matematiky a ako jazyk matematiky zmenil nás*. (Language and change. How we changed the language of mathematics and how the language of mathematics changed us) Parva Philosophica svazek 19. Filosofia, Praha, 59 pp.
- 2013 *Zrod vedy ako lingvistická udalosť. Galileo, Descartes a Newton ako tvorcovia jazyka fyziky*. (The birth of science as a linguistic event. Galileo, Descartes and Newton as founders of the language of science.) Filosofia, Praha, 304 pp.
- 2015 *Inštrumentálny realizmus*. (Instrumental realism.) Pavel Mervart, Praha, 224 pp.
- 2020 *Prostor mezi geometrií a malířstvím*. (Space between geometry and painting.) Slovart, Praha, 240 pp.
- 2021 *Descartes Nikétés*. Parva Philosophica svazek 29. Filosofia, Praha, 102 pp.

B - Papers in international journals and books

- 1992a On Steady States of the Disc Dynamo. *Astrophysical and Geophysical Fluid Dynamics* **65**, pp. 231-244. (With D. D. Sokoloff and A. M. Shukurov.)
- 1992b On Understanding as Standing Under. *Acta Didactica Universitatis Comenianae*, Issue 1, pp. 29-34.
- 1993a How do theories represent reality? *Mesotes* 1993/2, pp. 263-272.
- 1993b Boundary layer in nonlinear dynamo. In: F. Krause et al. (eds.) *The Cosmic Dynamo*. IAU publications, pp. 355-356. (First author K. M. Kuzanyan.)
- 1995a On the significance of Piaget's concept of the epistemological framework for mathematics education. *Acta Didactica Universitatis Comenianae*, Issue 4, pp. 55-65.
- 1995b Boundary layers in nonlinear dynamo. *Astronomical and Astrophysical Transactions* **8**, pp. 11-21. (First author K. M. Kuzanyan.)
- 1996a Henri Poincaré and the Epistemological Interpretation of the Erlangen Program. *Philosophia Scientiae* **1**, pp. 107-118.
- 1996b Was bedeutet es, ein geometrisches Bild zu verstehen? In: *Räumliches Denken*, ed. Dagmar Reichert, vdf Hochschulverlag an der ETH Zürich, pp. 95-123.
- 1997 Why don't they understand us? *Science and Education* **6**, pp. 263-272.
- 1998 History of Geometry and the Development of the Form of its Language. *Synthese* **116**, pp. 141-186.
- 1999a Tarski and Wittgenstein on Semantics of Geometrical Figures. In: *Alfred Tarski and the Vienna Circle, Vienna Circle Institute Yearbook 6* (1998), eds. J. Wolenski and E. Köhler, Kluwer, pp. 179-191.
- 1999b On classification of scientific revolutions. *Journal for General Philosophy of Science* **30**, pp. 201-232.
- 1999c Epistemological Foundations of Geometry in the 19th Century, *Philosophia Scientiae* **3**, pp. 183-202.
- 1999d Kuhn's *Structure of Scientific Revolutions* - how to continue? *Human Affairs* **9**, pp. 3-16.
- 1999e Mathematics and the History of Religion. *Human Affairs* **9**, pp. 110-125.
- 2000 Changes of Language in the Development of Mathematics. *Philosophia mathematica* **8**, pp. 47-83.

- 2002a Lakatos' Methodology Between Logic and Dialectic. In: *Appraising Lakatos. Mathematics, Methodology and the Man*, eds. G. Kampis, L. Kvasz and M. Stoeltzner, Kluwer, pp. 211-241.
- 2002b Galilean physics in light of Husserlian phenomenology. *Philosophia Naturalis* **39**, pp. 209-233.
- 2003 The Mathematization of Nature and Cartesian Physics. *Philosophia Naturalis* **40**, pp. 157-182.
- 2004a How can a Falsified Theory Remain Corroborated? In: *Induction and Deduction in the Sciences*, ed. F. Stadler, Kluwer, pp. 263-271.
- 2004b The Invisible Dialog Between Mathematics and Theology. In: *Perspectives on Science and Christian Faith* **56**, pp. 111-116.
- 2005a Similarities and differences between the development of geometry and of algebra. *Mathematical Reasoning and Heuristics*, (C. Cellucci a D. Gillies Eds.), King's College Publications London, pp. 25-47.
- 2005b The Mathematization of Nature and Newtonian Physics. *Philosophia Naturalis* **42**, pp. 183-211.
- 2006 History of Algebra and the Development of the Form of its Language. *Philosophia Mathematica* **14**, pp. 287-317.
- 2008a Forms of Transcendence in Science and in Religion. *Theology and Science* **6**, pp. 89-106.
- 2008b Sprache und Zeichen in der Geschichte der Algebra – ein Beitrag zur Theorie der Vergegenständlichung. *Journal für Mathematik-Didaktik* Vol 29, pp. 108-123.
- 2009a A problem for Popper's fallibilism. In: *Rethinking Popper; Boston Studies in The Philosophy of Science* Vol. **272**, ed. Z. Parusniková a R. S. Cohen, pp. 71-80. (Coauthor E. Zelenak.)
- 2009b On the Role of Transcendence in Science and in Religion. In: *Global Perspectives on Science and Spirituality*, ed. Pranab Das, Templeton Press, pp. 193-205.
- 2011a Kant's Philosophy of Geometry—On the Road to a Final Assessment. *Philosophia Mathematica* **19**, 139–166.
- 2011b Mathematisches Bewusstsein. In: M. Helmerich et al. (eds.), *Mathematik Verstehen*. Vieweg + Teubner, Wiesbaden, s. 71–85. (Spoluautor Reiner Kaenders)
- 2011c Classical Mechanics between History and Philosophy. In: A. Máté, M. Rédei a F. Stadler (eds.), *The Vienna Circle in Hungary*. Springer Wien New York, Wien, s. 129–154.
- 2012a What Can the Social Sciences Learn from the Process of Mathematization in the Natural Sciences. In: Dieks, D. et al. (eds), *Probabilities, Laws, and Structures*. Springer, Dordrecht, s. 379–389.
- 2012b Galileo, Descartes, and Newton – Founders of the Language of Physics. *Acta Physica Slovaca* **62**, 519–614.
- 2013a Heidegger's Interpretation of Mathematical Science in the Light of Husserl's Concept of Mathematization in the *Krisis*. *Philosophia Naturalis* **50**, s. 337–363.
- 2013b On boundaries of the language of physics. In: E. Barbin a R. Pisano (eds.), *The Dialectic Relation Between Physics and Mathematics in the XIXth Century*. Springer, Dordrecht, s. 139–158.
- 2013c Geschichte der Mathematik als Inspiration zur Unterrichtserstaltung. In: M. Rathgeb et al. (eds.), *Mathematik im Prozess – Philosophische, Historische und Didaktische Perspektiven*. Springer Spektrum, Wiesbaden, s. 291–303. (spoluautori Kaenders, R. H. a Weiss-Pidstrygach, Y.)
- 2014a Mathematics and Experience. In: M. C. Galavotti, E. Nemeth a F. Stadler (eds.), *European Philosophy of Science – Philosophy of Science in Europe and the Viennese Heritage, Vienna Circle Institute Yearbook 17*. Springer, Dordrecht, s. 117–129.
- 2014b Kuhn's Structure of Scientific Revolutions between sociology and epistemology. *Studies in History and Philosophy of Science* **46**, s. 78–84.
- 2015a Mathematical Language as a Bridge between Conceptualization of Motion and Experimental Practice. In: Pisano R. (ed.) *A Bridge between Conceptual Frameworks*. Dordrecht, Springer, s. 229–248.
- 2015b Ueber die Konstitution der symbolischen Sprache der Mathematik. In: Kadunz, G. (ed.): *Semiotische Perspektiven auf das Lernen von Mathematik*. Springer Spektrum Berlin, s. 51–67.
- 2015c Mehr Ausgewogenheit mathematischer Bewusstheit in Schule und Universität. In: Roth, J. et al. (eds.), *Uebergänge konstruktiv gestalten*. Springer Spektrum Wiesbaden s. 149–163. (spoluautori Kaenders, R.

H. a Weiss–Pidstrygach, Y.)

- 2016a Revisiting the Mathematisation Thesis: Galileo, Descartes, Newton, and the Language of Nature. *International Studies in the Philosophy of Science* **30**, 2016/4, s. 399–406.
- 2016b Language and the limits of science. In: W. Gonzales (ed.) *The Limits of Science. An Analysis from “Barriers” to “Confines”*. Brill Rodopi, Leiden 2016, s. 69–93.
- 2016c Emotions, Theology and Transcendence. *Studies in Science and Theology*, Volume **15**, s. 243–252.
- 2016d How mathematics confronts its paradoxes. *DVT – History of Sciences and Technology* **XLIX**, s. 249–264.
- 2018a On the roles of language in mathematics education. In: P. Ernest, (ed.), *Philosophy of Mathematics Education Today*, Springer, s. 229–240.
- 2018b Resnik’s structuralism in the light of history of mathematics. *Journal of Applied Logics – Journal of Logics and their Application* Vol. 5, No. 6 (September 2018), s. 1307–1335.
- 2019a How Can Abstract Objects of Mathematics Be Known? *Philosophia Mathematica* **27**, s. 316–334.
- 2019b Cognitive Unity of Thales’ Mathematics. *Foundations of Science*, 25(3), s. 737–753.
- 2020a Mathematical Language and the Changing Concept of Physical Reality. In: Gonzalez, W. (ed.), *New Approaches to Scientific Realism*. De Gruyter, Berlin, s. 206–227.
- 2020b Inquiry based mathematics education and the development of learning trajectories. (s M. Artigue, M. Bosch, M. Doorman, P. Juhász, K. Maass). *Teaching Mathematics and Computer Science* 18/3 (2020), s. 63–89.
- 2020c Cognitive principles of genetic constructivism. *Didactica Mathematicae* Vol. 42, 2020, s. 5–37.
- 2021 On the Role of Language in Scientific Research: Language as Analytic, Expressive, and Explanatory Tool. In: Gonzalez, W. (ed.): *Language and Scientific Research*. Palgrave Macmillan 2021, s. 93–117.
- 2022a Changes of the Pictorial Form and the Development of the Self. In: V. Kolman a T. Matějčková (eds.): *Perspectives on the Self – Reflexivity in the Humanities*. De Gruyter, Berlin 2022, s. 231–255.
- 2022b Instrumental Realism – A New Start for the Philosophy of mathematics and the Philosophy of Science. In: W. Gonzalez (ed.): *Current Trends in Philosophy of Science*. Synthese Library 462, Springer, Cham 2022, s. 165–188.

C - Papers in Slovak and Czech journals (in Slovak and Hungarian)

- 1991 Prečo nám nerozumejú? (Why don't they understand us?) *Fyzikálne obzory* 1991/19, pp. 58-70.
- 1992 Poznámky k jednej polemike. (Remarks on one Polemic.) *Filozofia* 1992/9, pp. 558-559.
- 1993 K pojmu epistemického rámca vedeckej teórie. (On the Concept of the Epistemic Framework of a Scientific Theory.) *Filozofia* 1993/7, pp. 409-416.
- 1994 Dejiny mocninných radov. (History of power series.) *Matematické obzory* 41, pp. 1-26.
- 1995a O pôvode ideálnych objektov vo vede. (On the Origin of Ideal Objects in Science.) *Filozofia* 1995/1, pp. 18-29.
- 1995b O povahe sveta matematiky. (On the Nature of the World of Mathematics.) *Filozofia* 1995/3, pp. 131-144.
- 1995c Náčrt klasifikácie vedeckých revolúcií. (Classification of Scientific Revolutions: An Outline.) *Filozofia* 1995/11, pp. 593-603.
- 1996 Náčrt analytickej teórie subjektu. (An Outline of an Analytic Theory of Subjectivity) *Filosofický časopis* 1996/4, pp. 617-640.
- 1997a Kuhnova Štruktúra vedeckých revolúcií - a ako ďalej? (Kuhn’s Structure of Scientific Revolutions - and how further on?) *Kritika a kontext* 1997/4, pp. 32-37.
- 1997b Dejiny náboženstva a matematika. (History of Religion and Mathematics.) *Hieron*, II./1997, pp.115-128.
- 1997c Topológia versus teória množín. (Topology versus Set Theory.) *Obzory matematiky, fyziky a informatiky*, 50/1997, pp. 1-15.
- 1998a Interdisciplinarita a jazyk vedy. (Interdisciplinarity and the Language of Science.) *Romboid*, 1998/8, pp.

- 48-55.
- 1998b Epistemologické aspekty dejín maliarstva. (Epistemological Aspects of the Development of Painting.) *Filozofia*, 1998/10, pp. 658-681.
- 1999a Filozofia ako most medzi poéziou a vedou. (Philosophy as a Bridge between Poetry and Science). In: *Za zrkadlom myslenia*, Média, Bratislava, pp. 87-92.
- 1999b Prolegomena k formálnej epistemológii. (Prolegomena to Formal Epistemology.) *Organon F*, 1999/3, pp. 223-239.
- 1999c Epistemologické aspekty klasickej mechaniky. (Epistemological Aspects of Classical Mechanics.) In: V. Havlík (ed.): *Mezi jazykem a vedomím*. Filosofia, Prague, pp. 105-129.
- 2000a Galileovská fyzika vo svetle Husserlovej fenomenológie. (Galilean Physics in the Light of Husserlian Phenomenology.) *Filosofický časopis*, 2000/3, pp. 373-399.
- 2000b Epistemologické aspekty moderného maliarstva. (Epistemological Aspects of Modern Painting.) *Filozofia*, 2000/8, pp. 601-619.
- 2000c Epistemologické aspekty dejín klasickej algebry. (Epistemological Aspects of the History of Classical Algebra.) *Filozofia*, 2000/10, pp. 788-808.
- 2000d Fregeovský pohľad na dejiny matematiky. (History of Mathematics in a Fregean Perspective.) *Logica et methodologica*, Univerzita Komenského Bratislava, Vol. 6 (2000), pp. 101-116.
- 2001a Epistemologické aspekty dejín modernej algebry. (Epistemological Aspects of the History of Modern Algebra.) *Filozofia* 2001/5, pp. 309-331.
- 2001b Descartovská fyzika vo svetle Husserlovej fenomenológie. (Cartesian Physics in the Light of Husserlian Phenomenology.) *Filosofický časopis*, 2001/2, pp. 213-240.
- 2001c Epistemologické aspekty dejín klasickej mechaniky. (Epistemological Aspects of the History of Classical Mechanics.) *Filozofia* 2001/10, pp. 679-702.
- 2002a Matematika a teológia. (Mathematics and Theology.) *Obzory matematiky, fyziky a informatiky* 4/2002, pp. 32-39.
- 2002b O hraniciach idealizácie vo vede. (On the Limits of Idealization in Science.) In: J. Rybár (ed.): *Filozofia a kognitívne vedy (Philosophy and Cognitive Sciences)*, IRIS Bratislava 2002, pp. 151-164.
- 2003 Niekoľko poznámok ku vzťahu prírodných a spoločenských vied. (Some Remarks to the Relation between the Natural and the Social Sciences.) *Organon F* 2003/2, pp. 157-172.
- 2004a Newtonovská fyzika vo svetle Husserlovej fenomenológie. (Newtonian Physics in the Light of Husserlian Phenomenology.) *Filosofický časopis*, 2004/3, pp. 411-440.
- 2004b Epistemologické otázky fyziky: od antinómií čistého rozumu k expresívnym medziam jazyka. (Epistemological Question of Physics: from Antinomies of Pure Reason to the Expressive Boundaries of the Language of Physics.) In: *Organon F* 2004/4, pp. 362-381.
- 2004c Geometrické aspekty zobrazovania priestoru v maliarstve. (Geometrical Aspects of the Representation of Space in Painting.) *Slovenský časopis pre geometriu a grafiku G*, Vol. 1, pp. 49-58.
- 2005a Epistemologické otázky modernej fyziky. (Epistemological Questions of Modern Physics.) *Organon F* 2005/1, pp. 40-61.
- 2005b Hintikka a Friedman o Kantovej filozofii geometrie. (Hintikka and Friedman on Kant's Philosophy of Geometry.) In: P. Sousedík (ed.): *Jazyk – logika – veda*. Filosofia, Praha, pp. 233-251.
- 2006a Heideggerov výklad vzniku matematickej prírodovedy v zrkadle Husserlovej koncepcie matematizácie v *Krisis*. (Heidegger's interpretation of the birth of mathematical natural science in the light of Husserl's approach to mathematization in the *Krisis*.) *Filosofický časopis*, 2006/2, pp. 183-204.
- 2006b Transcendencia vo vede a v náboženstve. (Transcendence in science and religion). *Studia Theologica* 8, pp. 1-19.
- 2007a Kantova filozofia exaktných disciplín a Fregeho argument z veľkých čísel. (Kant's philosophy of exact sciences and Frege's argument from large numbers) In: V. Havlík (ed.): *Meze formalizace, analytičnosti a prostoročasu*. Filosofia, Praha, pp. 129-149.

- 2007b O vzťahu prírodných a spoločenských vied. (On the relation between natural and social sciences) In: Kvasnička V. (ed.): *Myseľ, inteligencia a život*. STU Bratislava, pp. 95-109.
- 2007c Ako matematika čelí svojim paradoxom. (How mathematics faces its paradoxes) In: Slavkovský, R. A., Vydrová J. and Vydra A. (eds.): *Paradoxy a hranice racionality, Schola Philosophica*, Pusté Úľany, pp. 51-71.
- 2008 Newton a karteziánska fyzika. (Newton and Cartesian physics) *Filozofia* 2008/2, pp. 93-108.
- 2009 Matematika a skúsenosť. (Mathematics and Experience) *Organon F* 2009/2, pp. 146-182.
- 2010a Vedecká racionalita a súčasné prístupy k transcencii. (Scientific rationality and contemporary approaches to transcendence) In: Slavkovský, R. A., Vydrová J. a Vydra A. (ed.): *Boh a racionalita, Schola Philosophica*, Pusté Úľany, pp. 213-232.
- 2010b Náčrt teórie potencialít jazyka matematiky. (An outline of the theory of potentialities of the language of mathematics) In: Kvasnička, V., Pospíchal, J., Návrat, P., Lacko P. a Trebatický P. (ed.): *Umelá inteligencia a kognitívna veda II*. Slovenská technická univerzita v Bratislave, pp. 263-290.
- 2010c Penelope Maddyová medzi realizmom a naturalizmom. (Penelope Maddy between realizm and naturalizm) *Filozofia* 2010/6, pp. 522-537.
- 2010d Wittgensteinova filozofia a jazyk matematiky. (Wittgenstein's philosophy and the language of mathematics.) In: L. Dostálová a R. Schuster (eds.), *Studie k filozofii Ludwiga Wittgensteina; Filosofický časopis* **58**, mimoriadne číslo 2010/8, s. 85-112.
- 2011 Matematika a skutočnosť. (Mathematics and reality.) *Organon F* **18**, s. 302-330.
- 2012a Kuhnova *Štruktúra vedeckých revolúcií* medzi históriou a epistemológiou. (Kuhn's *Structure of Scientific Revolutions* between history and epistemology.) *Teorie vědy* 2012/2, s. 167-187.
- 2012b O idealizácii v exaktných vedách. (On idealization in exact sciences.) *Filosofický časopis* **60**, 2012/4, s. 483-503.
- 2012c Stupne nekonzistentnosti. (Degrees of inconsistency.) *Organon F* **19**, Supplementary issue 1, s. 95-115.
- 2013a Jazyk matematiky, jeho zmeny a didaktika matematiky. (The language of mathematics, its changes and mathematics education.) *Pokroky matemat., fyziky a astronómie* **58**, 315-325.
- 2013b Historické aspekty vyučovania algebry. (Historical aspects of teaching algebra.) In: M. Rendl, N. Vondrová a kol., *Kritická místa matematiky na základní škole očima učitelů*. Pedagogická fakulta UK v Praze, s. 301-324.
- 2014a Thalétova matematika v zrkadle Galileovej fyziky. (Thalet's mathematics in the light of Galilean physics.) *Filosofický časopis* **62**, 2014/5, s. 643-659.
- 2014b Na ceste k formálnej epistemológii. (On the road to formal epistemology.) *Věda kultura, veřejnost, mimoriadne číslo k 90. narodeninám Ladislava Tondla. Teorie vědy* **XXXVI**, s. 51-73.
- 2014c Paradoxy vo vedeckých teóriách a medze jazyka vedy. (Paradoxes in scientific theories and the boundaries of the language of science.) *Organon F* **21**, Supplementary issue, s. 70-87.
- 2015a Inštrumentálny realizmus – odpoveď na kritiky. (Instrumental realism – answer to critics.) *Organon F* **22** (1), s. 109-131.
- 2015b Formálna epistemológia a spoločenské vedy: odpoveď Markéte Patákovéj. (Formal epistemology and social sciences: an answer to Markéta Patáková.) *Teorie vědy* **XXXVII**, s. 327-360.
- 2015c Vedecké inštrumenty a skutočnosť. (Scientific instruments and reality.) In: V. Havlík (ed.): *Sedmkrát z logiky a metodologie vědy, Filosofický časopis* **63**, mimoriadne číslo 3/2015, s. 125-142.
- 2015d Šach ako metafora matematiky. (Chess as a metaphor of mathematics.) *Filozofia* 2015/3, s. 175-187.
- 2016a Formálna epistemológia – budúca syntéza. (Formal epistemology – the future synthesis.) *Filosofický časopis* **64**, 2016/6, s. 951-963.
- 2016b Princípy genetického konštruktivismu. (Principles of genetic constructivism.) *Orbis Scholae* 10, 2016/2, s. 15-45.
- 2017 Pythagorejská matematika vo svetle karteziánskej fyziky. (Pythagorean mathematics in the light of Cartesian physics.) *Filosofický časopis* **65**, 2017/4, s. 513-541.

- 2018 O vzťahu vizuálneho myslenia a inštrumentálnej praxe v matematike. (On the relationship of visual thinking and instrumental practice in mathematics.) *Filosofický časopis* **66**, s. 845–867.
- 2019 Problém objektivity vedeckého poznania od empirizmu k inštrumentálnemu realizmu. (The problem of objectivity of scientific knowledge: from empirism to instrumental realism.) In: M. Szapuová, M. Nuhlíček a M. Chabada eds., *Veda, spoločnosť a hodnoty*. Univerzita Komenského, Bratislava, s. 115–127.
- 2020 Inštrumentálny realizmus ako možné východisko teoretickej reflexie vyučovania matematiky. (Instrumental realism as a possible tool of theoretical reflection of mathematics education.) *Orbis Scholae* **14**, 2020/1, s. 7–32.
- 2021 *Las Meninas* medzi ilúziou a realitou. (*Las Meninas* between illusion and reality.) In: I. Gerát a M. Zervan (eds.): *Ilúzia a virtuálna realita v umení*. Slovart, Bratislava 2021, s. 54–63.
- 2022a Jazyk ako nástroj exaktného myslenia vo vede. (Language as a tool of exact thinking in science.) *Filozofia* Roč. **77** č. 10, s. 770–790.
- 2022b Hejného metóda vo svetle inštrumentálneho realizmu. (Hejný's method in the light of instrumental realism.) *Orbis Scholae*, vol. 16/1, s. 9–28.

D - Proceedings of international conferences

- 1994 Logic and the History of Mathematics. In: *Proceedings of the International Symposium Logica'94*, Praha 1994, eds.: T. Childers and O. Majer, pp. 211-222.
- 2001 Leibniz's criticism of the Cartesian physics. In: *Nihil sine ratione - VII. Internationaler Leibniz-Kongress*, Berlin 2001, ed. H. Poser, pp. 669-676.
- 2003 Epistemological aspects of the history of painting. In: *Proceedings of the 7th Central European Seminar on Computer Graphics*, Budmerice, Slovakia. Eds: I. Viola, Th. Theussl, a L. Szirmay-Kalos, pp. 7-24.
- 2005a On Possible Approaches to Motivation. In: *How to Teach Political Science? epsNet Workshop for Young University Teachers*, Praha 18. Jun 2004, ed. G. Gregušová, Sciences Po Paris 2005, pp. 21-26.
- 2005b Science and its Patterns of Transcendence. In: *Papers of the Paris workshop on Global Perspectives on Science and Spirituality*, Université Interdisciplinaire de Paris, 14. - 20. July 2005, pp. 86-89.
- 2006 On linguistic aspects of structure building. In: *Proceedings of the Fourth Congress of the European Society for Research in Mathematics Education*, ed. M. Bosch, Universitat Ramon Llull, pp. 342-351.
- 2007a Visual Illusions in Painting, or What could Computer Graphics Learn from Art History. In: *Proceedings of Spring Conference on Computer Graphics*, ed. Mateu Sbert, Comenius University, Bratislava, pp. 17-30.
- 2008 Historical and Epistemological Aspects of Teaching Algebra. In: *History and Epistemology in Mathematics Education*. Proceedings of the 5th European Summer University, Prague July 19-24, 2007. Eds: Evelyne Barbin, Nad'a Stehlíková and Constantinos Tzanakis, Vydavatelský servis Plzeň 2008, pp. 91-96.
- 2011 Recovering mathematical awareness by linguistic analysis of variable substitution. In: *Proceedings of the Seventh Congress of the European Society for Research in Mathematics Education*, eds. Pytlak, M. et al. University in Rzeszów, Poland, s. 2441–2450. (with Kaenders, R. H. a Weiss–Pidstrygach, Y.)
- 2013a Didaktische Aspekte der Entwicklung der Sprache der Mathematik. In: *Beiträge zum Mathematikunterricht 2013 (47. Jahrestagung der Gesellschaft für Didaktik der Mathematik*. Münster: Westfälische Wilhelms–Universität), eds. G. Greefrath, F. Käpnick a M. Stein, WTM Verlag, Muenster, s. 588–591.
- 2013b History of mathematics as an inspiration for educational design. In: *Proceedings of the Eight Congress of the European Society for Research in Mathematics Education*, eds. B. Ubuz, C. Haser a A. Mariotti, Middle East Technical University, Ankara, s. 2000–2009. (with Kaenders, R. H. a Weiss–Pidstrygach, Y.)
- 2014a Schülerfehler in der Mathematik. In: *Beiträge zum Mathematikunterricht 2014, (48. Jahrestagung der Gesellschaft für Didaktik der Mathematik*. Universität Koblenz Landau), eds. J. Roth a J. Amens, WTM Verlag, Muenster 2014, s. 695–698. (with D. Pilous)

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