

Florence Mihaela Singer

Selected Publications

2013

Singer, F. M., Ellerton, N., Cai, J. (2013). Problem-Posing Research in Mathematics Education: New Questions and Directions. *Educational Studies in Mathematics*. 83(1), 1-7. DOI: 10.1007/s10649-013-9478-2. <http://link.springer.com/article/10.1007%2Fs10649-013-9478-2>

Singer, F.M. & Voica, C. (2013). A problem-solving conceptual framework and its implications in designing problem-posing tasks. *Educational Studies in Mathematics*. DOI: 10.1007/s10649-012-9422-x, 83(1), 9-26. <http://link.springer.com/article/10.1007/s10649-012-9422-x>

Voica, C. & Singer, F. M. (2013). Problem Modification as a Tool for Detecting Cognitive Flexibility in School Children. DOI:10.1007/s11858-013-0492-8. *Zentralblatt fur didaktik der Mathematik*, ISSN: 1863-9690 (Print) 1863-9704 (Online), 45(2), 267-279. <http://link.springer.com/article/10.1007/s11858-013-0492-8>

Leikin, R., Subotnik, R., Pitta-Pantazi, D., Singer, F. M., & Pelczer, I. (2013). Teachers' views on creativity in mathematics education: an international survey. *ZDM The International Journal on Mathematics Education*, 45(2), 309-324. ISSN: 1863-9690, DOI 10.1007/s11858-012-0472-4. <http://link.springer.com/article/10.1007/s11858-012-0472-4>

Singer, F. M. (2013). Cercetarea științifică românească în educație: încotro? *Revista de Politica Științei și Scientometrie – Serie Nouă*, 2(4), 286-302, ISSN: L 1582-1218 (printed), ISSN: 2284-7316 (Online). <http://www.rpss.inoe.ro/articles/cercetarea-stiintifica-romaneasca-in-educatie-incotro>

Voica, C., Pelczer, I., Singer, F. M., Cullen, C. (2013). When (and How) Does a Posed Problem Become a Problem? in Lindmeier, A. M. & Heinze, A. (Eds.). *Proceedings of the 37th Conference of the International Group for the Psychology of Mathematics Education*, Vol. 4. Kiel, Germany: PME, pp. 353-360 (ISSN 0771-100X, ISBN 978-3-89088-290-1).

Pelczer, I., Singer, F. M., Voica, C. (2013a). Teaching highly able students in a common class: challenges and limits of a case-study. *Proceedings of CERME 8*. http://cerme8.metu.edu.tr/wgpapers/WG7/WG7_Mihaela_Singer.pdf

Pelczer, I., Singer, F. M., Voica, C. (2013b). Cognitive Framing: A case in Problem Posing. *Procedia – Social and Behavioral Sciences*, Special issue: PSIWORLD 2012, Vol 78, 13 May 2013, 195–199. <http://dx.doi.org/10.1016/j.sbspro.2013.04.278>
<http://www.sciencedirect.com/science/article/pii/S1877042813008471>

Singer, F. M., Ellerton, N., Cai, J. (Guest editors, 2013). Special issue of *Educational Studies in Mathematics*: Problem Posing in Mathematics Teaching and Learning: Establishing a Framework for Research, Volume 83, Issue 1 (2013), ISSN: 0013-1954 (Print) 1573-0816 (Online).

2012

Pelczer, I., Singer, F.M., Eftimie, S., Voica, C. (2012). Creating transferable abilities through conversion programs for professional development – A case in mathematics learning. *Journal of Educational Sciences and Psychology* Vol. II (LXIV), 2, pp. 72 – 83. ISSN 2247-6377; ISSN (online) 2247 – 8558.

http://jesp.upg-ploiesti.ro/index.php?option=com_phocadownload&view=file&id=371:creating-transferable-abilities-through-conversion-programs-for-professional-development-a-case-in-mathematics-learning&Itemid=16

Noveanu, G. N. & Singer, F. M. (2012). Romania TIMSS 2011. In I.V.S. Mullis, M.O. Martin, C.A. Minnich, G.M. Stanco, A. Arora, V. A. S. Centurino & C. E. Castle (Eds.), *TIMSS 2011 Encyclopedia: Education Policy and Curriculum in Mathematics and Science*, vol 2., TIMSS & PIRLS International Study Center, Lynch School of Education, Boston College: IEA, pp. 743-756, ISBN: 978-1-889938-60-8 .http://timssandpirls.bc.edu/timss2011/downloads/TIMSS2011_Enc-v1.pdf

Leikin, R., Pitta-Pantazi, D., Singer, F.M. & Ulovec, A. (2012). CERME7 Working Group 7: Mathematical potential, creativity and talent. *Research in Mathematics Education*, Volume 14, Issue 2, pp. 197-198 ISSN: 1479-4802 (Print), 1754-0178 (Online), DOI:10.1080/14794802.2012.694288. <http://www.tandfonline.com/doi/full/10.1080/14794802.2012.694288#.UwiLMvmSxqU>

Singer, F. M. (2012). Exploring mathematical thinking and mathematical creativity through problem posing. In R. Leikin, B. Koichu, Avi Berman (eds.) *Proceedings of International Workshop of Israeli Science Foundation on Exploring and advancing mathematical abilities in high achievers*. p. 119-124. https://www.academia.edu/6151025/Singer_F._M._2012_.Exploring_mathematical_thinking

Singer, F. M. (2012). Boosting the Young Learners' Creativity: Representational Change as a Tool to Promote Individual Talents (Plenary lecture). In *The 7th International Group for Mathematical Creativity and Giftedness (MCG) International Conference Proceedings*. Busan, South Korea: MCG, p.3-26. ISBN: 978-89-98016-10-4.

https://www.researchgate.net/profile/Florence_Singer/contributions/?ev=prf_act

Singer, B., Singer, F. M. (2012). Using Personalized Feedback in Learning to Stimulate Students' Mathematical Creativity. In *The 7th International Group for Mathematical Creativity and Giftedness (MCG) International Conference Proceedings*. Busan, South Korea: MCG, p. 258-268. ISBN: 978-89-98016-10-4.

Voica, C. & Singer, F.M. (2012). Problem modification as an indicator of deep understanding. *Proceedings of ICME 12*, pp. 1533-1542, Seoul, Korea. 8-15 July, 2012, www.icme12.org/upload/UpFile2/TSG/1259.pdf

Singer, B., Singer, F. M. (2012). Assessing problem solving competence - New tools for feedback. *Proceedings of ICME 12*, p. 7355-7356, http://www.icme12.org/sub/sub02_05.asp

Singer, M., Voica, C. (2007/2012). *Didactica matematizării problemelor puse de practică*, Curs pentru învățământ la distanță, București: PIR/MEdC, 96 pg., 2007, ISBN: 978-973-0-04797-4. Ediție nouă 2012, Buc: Politehnica Press, ISBN: 978-606-515-375-2.

Singer, M., Voica, C. (2007/2012). *Tipologia rezolvării problemelor*, Curs pentru învățământ la distanță, București: PIR/MEdC, 112 pg., 2007, ISBN: 978-973-0-04798-1, 2007. Ediție nouă 2012, Buc: Politehnica Press, ISBN: 978-606-515-374-2.

Singer, M., Radu, M., Ghica, I., Drugan, G. (1997,1998, 2000-2012). *Manual de matematică pentru clasa a V-a* (în lb. rom, maghiară, germană și rusă), București: Sigma, 240 pg.

Singer, M., Voica, C. (1998, 2000-2012). *Manual de matematică pentru clasa a VIII-a.*, (în lb. rom, maghiară, germană), București: Editura Sigma, 198 pg.

2011

Singer, F. M., Ellerton, N., Cai, J., Leung, E. (2011). Problem Posing in Mathematics Learning and Teaching: a Research Agenda. In Ubuz, B. (Ed.), *Developing mathematical thinking. Proceedings of the 35th Conference of the International Group for the Psychology of Mathematics Education*, vol 1, pp.137-166 (Research forum). Ankara, Turkey: PME. ISBN: 978-975-429-294-7. http://www.ruhr-uni-bochum.de/imperia/md/content/mathematik/Roesken/pme35_ankara_volume1.pdf
https://www.researchgate.net/profile/Florence_Singer/contributions/?ev=prf_act

Voica, C, & Singer, F.M. (2011). Creative contexts as ways to strengthen mathematics learning. In M. Anitei, M. Chraif and C. Vasile (Eds.), *Proceeding on PSIWORLD 2011, Procedia SBS*, Vol. 33/2012, 538-542, <http://dx.doi.org/10.1016/j.sbspro.2012.01.179>

Singer, F.M. & Stoicescu, D. (2011). Using Blended learning as a tool to strengthen teaching competences. *Procedia Computer Science Journal*, 3, 1527-1531, Elsevier Publishing LTD, ISSN: 1877-0509. <http://www.sciencedirect.com/science/article/pii/S1877050911000445>

Pelczer, I., Singer, F. M., Voica, C. (2011). An Analysis of Relevant Hints in Problem Solving. In Ubuz, B. (Ed.), *Developing mathematical thinking. Proceedings of the 35th Conference of the International Group for the Psychology of Mathematics Education*, vol 1, pp. 370. Ankara, Turkey: PME. ISBN: 978-975-429-262-6

Singer, F. M., Sarivan, L. (2011). *Masterprof*: A program to educate Teachers for the Knowledge Society. In F.M. Singer & L. Sarivan (Eds.) *Procedia – Social and Behavioral Sciences*, 11 (2011), p. 7-11. https://www.researchgate.net/profile/Florence_Singer/contributions/?ev=prf_act
<http://www.sciencedirect.com/science/article/pii/S1877042811000255>

Vasile, C., Marhan, A.M., Singer, F.M, Stoicescu, D. (2011). *Academic self-efficacy and cognitive load in students*, *Procedia - Social and Behavioral Sciences*, Volume 12, 2011, p. 478-482. https://www.researchgate.net/profile/Florence_Singer/contributions/?ev=prf_act

Pelczer, I., Singer, F. M., Voica, C. (2011). In-Service and Pre-Service Teachers' Strategies of Task Adaptation. In Ubuz, B. (Ed.), *Developing mathematical thinking. Proceedings of the 35th Conference of the International Group for the Psychology of Mathematics Education*, vol 3, pp. 369-376. Ankara, Turkey: PME. ISBN: 978-975-429-262-6

Pelczer, I., Singer, F. M., Voica, C. (2011). Between algebra and geometry: the dual nature of the number line, In Marta Pytlak, Tim Rowland, Ewa Swoboda (Eds) *Proceedings of the 7th Conference of the European Society for Research in Mathematics Education (CERME 7)* University of Rzeszów, Poland, 9-13 February, 2011. ISBN 978-83-7338-683-9. https://www.researchgate.net/profile/Florence_Singer/contributions/?ev=prf_act

Voica, C. & Singer, F. M. (2011). Using small scale projects as tools for changing the teaching paradigm. In F.M. Singer & L. Sarivan (Eds.) *Procedia – Social and Behavioral Sciences*, 11, 2011, 200-204.

Singer, F. M., Pelczer, I., Voica, C. (2011). Problem posing and modification as a criterion of mathematical creativity. In Marta Pytlak, Tim Rowland, Ewa Swoboda (Eds) *Proceedings of the 7th Conference of the European Society for Research in Mathematics Education (CERME 7)* University of Rzeszów, Poland, 9-13 February, 2011. ISBN 978-83-7338-683-9. <https://www.mathematik.uni-dortmund.de/~erme/doc/cerme7/CERME7.pdf>

Leikin, R., Pitta-Pantazi, D., Singer, F. M., and Ulovec, A., C. (2011). Introduction to the papers of WG 7: Mathematical potential, creativity and talent. In Marta Pytlak, Tim Rowland, Ewa Swoboda (Eds) *Proceedings of the 3rd Conference of the European Society for Research in Mathematics Education (CERME 7)* University of Rzeszów, Poland, 9-13 February, 2011. ISBN 978-83-7338-683-9

Singer, F.M. & Sarivan, L. (Guest editors, 2011). *Special Issue 11 (2011): Proceedings of the 1st Conference Teachers for the Knowledge Society*, *Procedia – Social and Behavioral Sciences*, Elsevier Ltd., 286 pag. ISSN: 1877-0428.

Singer, B., and Singer, F.M. (2011). System of testing, analysing and reporting, European Patent Office: EP2328135A1 01.06.2011 EPO Bulletin 2011/22. (European Patent) <https://data.epo.org/publication-server/document?PN=EP2328135%20EP%202328135&iDocId=7546844&iPosition=0&iFormat=0>

Voica, C. & Singer, F.M. (2011). *Aplicatii ale matematicii in alte domenii*. Bucuresti: Politehnica Press, 122 p., ISBN: 978-606-515-304-2.

Pelczer, I., Singer, M. & Voica, C. (2011). *Construieste, exploreaza, demonstreaza! De la modele Origami la intelesuri matematice*, 80 p., Bucuresti: Sigma, ISBN: 978-973-649-714-8.

2010

Subotnik, R.F., Singer, F.M. & Leikin, R. (2010). Intercultural Perspectives on Creativity in School Mathematics: The Role of Context, Individual Differences and Motivation, *Mediterranean Journal for Research in Mathematics Education*, 9(2), 11-39. ISSN: 1450-1104.

Singer, F.M. (2010). Children's Cognitive Constructions: From Random Trials to Structures, in Jared A. Jaworski (Ed.), *Advances in Sociology Research*, vol. 6, pp: 1-35, ISBN: 978-1-60741-879-5. https://www.researchgate.net/profile/Florence_Singer/contributions/?ev=prf_act

https://www.academia.edu/2117728/Singer_F.M._2010_.Childrens_Cognitive_Constructions_From_Random_Trials_to_Structures

Singer, F.M. (2010). From The Dynamic Infrastructure of Mind to the Multiple Intelligences Profile: A Challenge for Curriculum Design. *Mehmet Akif Ersoy Üniversitesi Sosyal Bilimler Enstitüsü Dergisi*, 2 (3), pp. 139-147. ISSN: 1309-1387. <https://edergi.mehmetakif.edu.tr/index.php/sobed/article/viewFile/58/143>

Singer, F.M. & Voica, C. (2010). In Search of Structures: How Does the Mind Explore Infinity? *Mind, Brain and Education*, 4(2), p. 81-93, ISSN: 1751-2271.

<http://onlinelibrary.wiley.com/doi/10.1111/j.1751-228X.2010.01087.x/abstract>

Singer, F. M. (2010). Meeting the Excellence – an Unforgettable Experience. In R. Pricopie & D. Gutu (Eds.), *On Education. New and Fresh Perspectives*. Bucharest: Tritonic, pp. 133-142.

Singer, F.M., Sarivan, L. (2010). The Basics of Non-Learning: Are They Set in Elementary Grades?, *UPG Bulletin, Educational Sciences Series*, vol.LXII, 2, pp. 68-77, ISSN: 1841-6586.

Singer, F.M., Sarivan, L., de Vries, P., Muhren, A. (2010). Competent Teachers for the Knowledge Society – A New Master Program, *UPG Bulletin, Educational Sciences Series*, vol.LXII, 1B, pp. 107-116, ISSN: 1841-6586.

Sarivan, L., Singer, F.M. (2010). New Media for Better Teachers – the Story of Masterprof, *UPG Bulletin, Educational Sciences Series*, vol.LXII, 1A, pp. 153-161, ISSN: 1841-6586.

Singer, F.M. & Singer, B. (2010). STAR: A collaborative technology for personalized feedback in learning, In P. Escudeiro (Ed.), *Proceedings of 9th European Conference on e-Learning*, p. 554-560, Reading, UK: Academic Publishing Limited, ISBN: 978-1-906638-82-5

Singer, F.M. (2010). Can students do better? A cognitive experiment in the Math class, *Frontiers in Neuroscience*, 4 (2), p. 122, ISSN: 1662-453X.

Singer, M., Voica, C. (2006/2010). *Didactica geometriei*, Curs pentru învățământ la distanță, București: PIR/MEdC, 160 pg., 2006. Ediție nouă 2010, Buc: Politehnica Press.

Singer, M., Voica, C. (2005/2010). *Didactica ariilor curriculare: Matematică, științe ale naturii și Tehnologii*, Curs pentru învățământ la distanță, PIR/MEdC, 212 pg., 2005. Reeditat 2010. , Buc: Politehnica Press, ISBN: 978-606-515-136-9.

Singer, M., Voica, C. (2005/2010). *Didactica algebrei*, Curs pentru învățământ la distanță, București: PIR/MEdC, 160 pg., 2005. Reeditat 2010. Ediție nouă 2010, Buc: Politehnica Press. ISBN: 978-6-6-515-236-6.

Singer, M., Voica, C. (2010). De la Matematică la Matepractică. Matematica în cotidian pentru clasele a VII-a, a VIII-a, Ed. Sigma, 176 p, ISBN: 978-973-649-600-4.

2009

Singer, F. M. (2009). The Dynamic Infrastructure of Mind - a Hypothesis and Some of its Applications, *New Ideas in Psychology*, 27(1), 48–74, NIP389, PII:S0732-118X(08)00003-2 DOI:10.1016/j.newideapsych.2008.04.007, ISSN: 0732-118X.

<http://www.sciencedirect.com/science/article/pii/S0732118X08000032>

McConnell, J.W., Feldman, C.H., Heeres, D., Kallemeyn, E., Ortiz, E., Winningham, N., Hunt, K., Regis, T.P., Singer, M.F., Wolfe, J., Jakucyn, N., Usiskin, Z. (2009). *The University of Chicago School Mathematics Project: Pre-Transition Mathematics, Student Edition*, Chicago: Wright Group/ Mc Graw Hill Companies, 765 pages, ISBN: 978-0-07-618569-6, MHID:0-7-618569-9.

McConnell, J.W., Feldman, C.H., Heeres, D., Kallemeyn, E., Ortiz, E., Winningham, N., Hunt, K., Regis, T.P., Singer, M.F., Wolfe, J., Jakucyn, N., Usiskin, Z. (2009). *UCSMP: Pre-Transition Mathematics. Teacher's Edition, Vol.1*, Chicago: Wright Group/ Mc Graw Hill Companies, ISBN: 9780076189274, MHID: 0076189279.

McConnell, J.W., Feldman, C.H., Heeres, D., Kallemeyn, E., Ortiz, E., Winningham, N., Hunt, K., Regis, T.P., Singer, M.F., Wolfe, J., Jakucyn, N., Usiskin, Z. (2009). *UCSMP: Pre-Transition Mathematics. Teacher's Edition, Vol.2*, Chicago: Wright Group/ Mc Graw Hill Companies, ISBN: 9780076189281, MHID: 0076189287

Singer, M., Sarivan, L. (2009). Curriculum Reframed. MI and New Routes to Teaching and Learning in Romanian Universities. In J.Q. Chen, S. Moran, H. Gardner (eds.), *Multiple intelligences around the world*. Pp. 230-244. 408 pages New York: Jossey-Bass Inc Pub., ISBN: 978-0-7879-9760-1.

https://www.researchgate.net/publication/259977249_Curriculum_Reframed_MI_and_New_Routes_to_Teaching_and_Learning_in_Romanian_Universities

Litoiu, N., Rosca, S. I., Singer, F.M., Petrescu, I., Ghitulica, C. (2009). The management of development and implementation of educational programs for distance learning related to the chemistry domain. *Romanian Journal of Materials*, 39 (2), pp. 165-172, ISBN: 1583-3186.

Pelczer, I., Singer, F. M., Voica, C. (2009). Patterns of change in solving dynamic and static problems. "Quaderni di Ricerca in Didattica (Matematica)", *Supplemento n. 2, 2009*, pp. 288-292. G.R.I.M. (Department of Mathematics, University of Palermo, Italy). Proceedings CIEAEM 61 – Montréal, Québec, Canada, July 26-31, 2009.

Pelczer, I., Singer, F. M., Voica, C. (2009). The problem solving process between static and dynamic. In Tzekaki, M., Kaldrimidou, M. & Sakonidis, C. (eds.). *Proceedings of the 33rd Conference of the International Group for the Psychology of Mathematics Education*, vol. 1, pp. 443. Thessaloniki, Greece: PME.

Singer, F.M. (2009). Recent research in cognitive science and neuroscience: is it relevant to mathematics learning? *Proceedings of the 6th International Congress of Romanian Mathematicians*, pp. 587-597, Bucharest: Romanian Academy Publishing House, ISBN: 978-973-27-1781-3. https://www.researchgate.net/profile/Florence_Singer/publications/?page=2&sorting=newest

Singer, F. M., Voica, C. (2009). When the infinite sets uncover structures: an analysis of students' reasoning on infinity. In Tzekaki, M., Kaldrimidou, M. & Sakonidis, C. (eds.). *In Search for Theories in Mathematics Education. Proceedings of the 33rd Conference of the International Group for the Psychology of Mathematics Education*, vol. 5, pp. 121-128. Thessaloniki, Greece: PME. https://www.researchgate.net/profile/Florence_Singer/contributions/?ev=prf_act

Singer, F. M., Ellerton, N., Silver, E.A., Cai, J., Pelczer, I., Imaoka, M., Voica, C. (2009). Problem posing in mathematics learning: establishing a theoretical base for research. *In Search for Theories in Mathematics Education. Proceedings of the 33rd Conference of the International Group for the Psychology of Mathematics Education*, vol 1, pp.299. Thessaloniki, Greece: PME.

Voica, C. & Singer, F.M. (2009). From real life to probability laws: integrating problem solving in teaching statistics and probabilities, In M. Kourkoulos, C Tzanakis (Eds.) *Proceedings of the 5th International colloquium On the Didactics of Mathematics*, vol.2, pp. 263-274. Greece: Rethymnon, <http://www.edc.uoc.gr/5colloquium>, ISBN: 978-960-87898-3-8.

Singer, M., Voica, C. (2009). Cercetarea în Didactica matematicii – o Cenușăreasă? *ROMAI Educational Journal*, 4, 8-12. ISSN:1843-3078.

2008

Noveanu, G. N., Singer, F.M. (2008). Romania TIMSS 2007. In I.V.S. Mullis, M.O. Martin (Eds.), *TIMSS 2007 Encyclopedia A guide to Mathematics and Science Education Around the World*, vol 2. IEA, TIMSS & PIRLS International Study Center, Lynch School of Education, Boston College, 2008, pp. 481-490, ISBN: 1-889938-47-5481. http://timss.bc.edu/timss2007/PDF/T07_Enc_V2.pdf

Singer, F.M., Voica, C. (2008). Between perception and intuition: thinking about infinity, *The Journal of Mathematical Behavior*, 27(3), pp. 188-205, PII: S0732-3123(08)0025-4, DOI: 10.1016/j.jmathb.2008.06.001, ISSN: 0732-3123. <http://dx.doi.org/10.1016/j.jmathb.2008.06.001>

Singer, F. M., & Moscovici, H. (2008). Teaching and learning cycles in a constructivist approach to instruction. *Teaching and Teacher Education*, Vol. 24(6), pp 1613-1634, DOI:10.1016/j.tate.2007.12.002., ISSN: 0742-051X. <http://dx.doi.org/10.1016/j.tate.2007.12.002>

Singer, F.M. (2008). Dynamic structural learning – a tool for reforming the teaching practice, *UPG Bulletin. Educational Sciences Series*, 1A (LX), pp. 29-43, ISSN: 1841-6586.

Singer, F.M., Voica, C. (2008). Extrapolating Rules: How Do Children Develop Sequences? In O. Figueras (Ed.), *32th PME Proceedings*, Morelia, Michoacán, Mexico, vol.4: 256-263, ISBN: 978-968-9020-06-6/ 978-968-9020-07-3.

Singer, F.M. (2008). Enhancing transfer as a way to develop creativity within the dynamic structural learning. In R. Leikin (Ed.), *Proceedings of the 5th International Conference on Creativity in Mathematics and the Education of Gifted Students*, pp. 223-230, Tel Aviv: CET, 491 pg., ISBN: 965-354-006-8.

Singer, F.M., Voica, C. (2008). A personalized analysis of students' answers in mass competitions – source for comprehensive assessment and the promotion of creativity. In R. Leikin (Ed.), *Proceedings of the 5th International Conference on Creativity in Mathematics and the Education of Gifted Students*, pp. 231-237 Tel Aviv: CET, 491 pg., ISBN: 965-354-006-8.

Singer, F.M., 2008. Intercultural aspects of creativity in a global world Position document, p.1-4, The 5th International Conference on Creativity in Mathematics and the Education of Gifted Students, Haifa, Israel, 1-3.05. 2008,
<http://construct.haifa.ac.il/~rozal/templeton/Florence%20Mihaela%20Singer-%20templeton%20workshop.pdf>

Dumbraveanu, L. & Singer, F.M. (Guest editors, 2008.). Educational policies (Special issue of the *Romanian Journal of Pedagogy*). An LVI, 7-12/2008, ISSN: 0034-8679.

Singer, F.M., Voica, C. (2008). Categoriile operaționale în clasificarea problemelor. *ROMAI Educational Journal*, 3, pp. 36-41, ISSN: 1843-3078.

Singer, F.M. (2008). Dynamic structural learning – a tool for reforming the teaching practice, UPG Bulletin, Educational Series, vol.LX(1A), Special Issue with Papers Presented at the International Conference Science and Technology in the Context of Sustainable Development, Ploiești, 2008, p. 29-43

Sarivan, L., Singer, F.M. (2008). Curriculum sub reflector. Raport tehnic privind dezvoltarea curriculară în perioada 2001-2008 în România, *Revista de Pedagogie*, An LVI, pp. 21-51, ISSN: 0034-8679.

Singer, M. (2008). Medii colaborative de învățare. In E. Noveanu & D. Potolea (eds.), *Științele educației. Dicționar enciclopedic*, p. 719-723, București: Ed. Sigma, ISBN: 978-973-649-393-5, 978-973-649-395-9.

2007

Singer, F.M. (2007). Beyond Conceptual Change: Using Representations to Integrate Domain-Specific Structural Models in Learning Mathematics. *Mind, Brain, and Education*, 1(2), pp. 84-97, DOI: 10.1111/j.1751-228X.2007.00009.x, ISSN: 1751-2271.
<http://onlinelibrary.wiley.com/doi/10.1111/j.1751-228X.2007.00009.x/abstract>

Singer, M. (2007). Balancing Globalisation and Local Identity in the reform of Education in Romania. In B. Atweh, M. Borba, A. Barton, D. Clark, N. Gough, C. Keitel, C. Vistro-Yu, and R. Vithal (Eds.), *Internalisation and Globalisation in Mathematics and Science Education*, Dordrecht, New York: Springer, Chapter 20, pp.365-382, 2007, ISBN: 978-1-4020-5907-0.
http://link.springer.com/chapter/10.1007%2F978-1-4020-5908-7_20
https://www.researchgate.net/publication/226898708_Balancing_Globalisation_And_Local_Identity_In_The_Reform_Of_Education_In_Romania

Singer, M. (2007). Approaching teaching and learning mathematics from a cognitivist perspective. *UPG Bulletin. Educational Sciences Series*, 1 (LIX), pp. 87-99, ISSN: 1841-6586.

McConnell, J.W., Feldman, C.H., Kallemeyn, E., Ortiz, E., Regis, T.P., Singer, M., Usiskin, Z. (2005-2006). *Pre-Transition Mathematics*, University of Chicago, Chicago: UCSMP, Chapters 1-4: pp. 1-280, Chapters 5-6: pp. 281-400, Chapters 7-8: pp. 401-518, Chapters 9-10: pp. 519-632, Chapters 11-12: pp. 587-690, ISBN: 0-936745-80 (set).

Singer, F. M. (2007). Modelling both complexity and abstraction: a paradox? In W. Blum, P. Galbraith, H. W. Henn and N. Mogens (Eds.), *Applications and Modelling in Mathematics Education*, New York: Springer, Chapter III.3.2.: pp. 233-240, 2007, ISBN-13: 978-0-387-29820-7.
https://www.researchgate.net/publication/226549589_Modelling_Both_Complexity_and_Abstraction_A_Paradox?fulltextDialog=true&ev=prf_pub_xaddfulltext

Singer, F. M. (2007). Language across the mathematics curriculum: some aspects related to cognition. In S. Ongstad (ed.), *Language in Mathematics? A comparative study of four national curricula*, Strasbourg: Council of Europe, Language Policy Division, www.coe.int/lang, pp. 71-82.

Singer, F.M., Voica, C. (2007). Children's perceptions on infinity: Could they be structured? In D. Pitta-Pantazi & G. Philippou (Eds.) *Proceedings of the 5rd Conference of the European Society for*

Research in Mathematics Education (CERME 5), Larnaca: Univ. of Cyprus, TG3, p. 506-515.
<http://www.mathematik.uni-dortmund.de/~erme/CERME5b/WG3.pdf>

Singer, F. M. (2007). Language across the mathematics curriculum in Romania. In S. Ongstad (ed.), *Language in Mathematics? A comparative study of four national curricula*, Strasbourg: Council of Europe, Language Policy Division, www.coe.int/lang, pp. 35-50.

Singer, M., Sarivan, L. (2007). *Towards a Competence Based Curriculum for STM Teachers: a Cognitive Model*. In C. Natarajan and B. Choksi (Eds.) *Proceedings of The International Conference to review research on Science, Technology and Mathematics Education*, Mombay: Macmillan LTD, pp. 240-245, 2007, ISBN: 978-0230-63068-0.
<http://www.hbcse.tifr.res.in/episteme/episteme-2/e-proceedings/singer>

Singer, M., Voica, C. (2007). Operational Categories for Assessing Problem Solving, in *Proceedings CAIM 15, ROMAI Educational Journal 2*.

Singer, M. (2007). Approaching teaching and learning mathematics from a cognitivist perspective. In *UPG Bulletin, Educational Sciences Series*, pp. 87-99.

Singer, M., Voica, C. (2007). *Learning through projects: a strategy to train future teachers*, ROMAI *Educational Journal*, pp.69-73, ISSN: 1843-3078.

Singer, M. (2007). Filosofia mentalului. In E. Noveanu & D. Potolea (eds.), *Științele educației. Dicționar enciclopedic*, pp. 469-472, București: Sigma, ISBN: 978-973-649-393-5, 978-973-649-395-9.

Voica, C., Singer, M., Stupariu, M.S. (2007). *Manual pentru clasa a XII-a. M4*, București: Ed. Sigma, 104 pg.

Voica, C., Singer, M., Stupariu, M.S. (2007). *Manual pentru clasa a XII-a. M5*, București: Ed. Sigma, 128 pg.

2006

Singer, M. (2006). A Cognitive Model for Developing a Competence-based Curriculum in Secondary Education. In: Al. Crisan (Ed.), *Current and Future Challenges in Curriculum Development: Policies, Practices and Networking for Change*. Bucharest: Education 2000+ Publishers. Humanitas Educational, pp. 121-141, ISBN-(13) 978-973-689-104-5.

https://www.researchgate.net/publication/258216691_A_cognitive_model_for_developing_a_competence_based_curriculum_in_secondary_education

Singer, F.M., Voica, C. (2006). Using a cinematic way to classify math problems. In S. Dodunekov, G. Macrides, I. Kortezov (Eds.) *MASSE MICOM-2006*, pp. 117, 2006, ISBN: 9963-9277-0-X.

Singer, M., Voica, C. (2006). *O clasificare cinematică a problemelor de matematică*, ROMAI *Educational Journal* 1/2006, pp. 56-63.

Singer, M. (2006). În căutarea reperelor: cuvânt înainte. În *Quo vadis, Academia? Repere pentru o reformă de profunzime în învățământul superior*, Bucuresti: Sigma, pp. 7-14.

Singer, M., Sarivan, L. (coord. , 2006), *Quo vadis, Academia? Repere pentru o reformă de profunzime în învățământul superior*, Bucuresti: Sigma, 412 pag., ISBN: 978-973-649-266-2.

[https://www.academia.edu/258801/Singer M. Sarivan L. Eds. 2006 . Quo vadis Academia Reference Points for a Comprehensive Reform in Higher Education Bucharest Sigma 412 p](https://www.academia.edu/258801/Singer_M._Sarivan_L._Eds._2006_.Quo_vadis_Academia_Reference_Points_for_a_Comprehensive_Reform_in_Higher_Education_Bucharest_Sigma_412_p)

Sarivan, L., Singer M. (2006). Reforma învățământului superior: un cadru de referință pentru curriculumul universitar. In M., Singer, L. Sarivan, (coord.), *Quo vadis, Academia? Repere pentru o reformă de profunzime în învățământul superior*, Bucuresti: Editura Sigma, pp.115-201.

Căpiță, L. Cerkez, M. Mândruț, O., Sarivan, L., Singer M. (2006). Reforma învățământului superior: între Cadrul European al Calificărilor și tentative pentru dezvoltarea unui cadru național. In M., Singer, L. Sarivan, (coord.), *Quo vadis, Academia? Repere pentru o reformă de profunzime în învățământul superior*, Bucuresti: Sigma, pp. 202-235.

Sarivan, L. Singer, M. (2006). Un curriculum centrat pe competențe pentru formarea inițială a profesorilor: de la deziderat la realitate. In M., Singer, L. Sarivan, (coord.), *Quo vadis, Academia? Repere pentru o reformă de profunzime în învățământul superior*, Bucuresti: Sigma, pp. 236-287.

Singer, M. (2006). *Culegere de probleme pentru clasa I. Fixare, antrenament, dezvoltare, sinteză*. București: Sigma, 168 pg.

Singer, M. (2006). *Culegere de probleme pentru clasa a II-a. Fixare, antrenament, dezvoltare, sinteză*. București: Sigma, 160 pg.

Singer, M. (2006). *Culegere de probleme pentru clasa a III-a. Fixare, antrenament, dezvoltare, sinteză*. București: Sigma, 212 pg.

Singer, M. (2006). *Culegere de probleme pentru clasa a IV-a. Fixare, antrenament, dezvoltare, sinteză*. București: Sigma, 240 pg.

Voica, C., Singer, M., Stupariu, M.S. (2006). *Manual pentru clasa a XI-a. M4*, București: Ed. Sigma, 104 pg.

Singer, M., Voica, C. (2006). *Manual pentru clasa a XI-a. M5*, București: Sigma, 128 pg.

Singer, M. (2006). *Prietenii. Manual pentru clasa a IV-a*. București: Sigma, 160 pg.

Singer, M. (2006). *Prietenul meu, caietul de matematică pentru clasa a IV-a*. București: Sigma, 96 pg.

Singer, M., Modoiu, M., Marivescu, G. (1999-2006). *Treaptă cu treaptă la examenul de capacitate*, București: Editura Sigma, 256 pg.

2005

Singer, M., Sarivan, L. (2005). Un curriculum centrat pe competențe pentru formarea inițială a profesorilor: de la deziderat la realitate, *Revista de pedagogie*, București: ISE, pp.13-24.

Singer, M. (2005). Prefața la ediția în limba română a cărții lui Howard Gardner „*The disciplined mind*”, Sigma, pp. 5-10.

Singer, M., Voica, C. (2005). *Recuperarea rămânerii în urmă la matematică*, București: CEDU 2000+, 80 pg.

Singer, M. (2005). In loc de prefață: performanță sau competență? In *Raport Național 2003: Învățarea matematicii și a științelor. Studiu comparativ* (Aut.: G.N. Noveanu, V. Tudor, M. Neagu, V. Pop, D. Noveanu. Bucuresti: ISE/PIR, ISBN: 973-99622-2-X.

Singer, M. (2005). *Prietenii. Manual pentru clasa a III-a*. București: Sigma, 144 pg.

Singer, M., Voica, C. (2005). *Cum demonstrăm? De la intuiție la rigoare*, București: Sigma, 56 pg.

2004

Singer, M., Voica, C. *Challenging the future: mathematics education in Romania between ideals and reality*, Cub, ICME-10, 2004, ISBN: 973-9451-09-8.

Singer, F.M. (2004). *Models, complexity and abstraction – how do they relate in school practice?* In H. W. Henn and W. Blum (Eds), *Applications and Modelling in Mathematics Education*, Dortmund: ICMI Study 14, p. 255-260.

Singer, F.M. (2004). *The dynamic structural learning: from theory to practice*. In M. Niss & E. Emborg (Eds.) 10th International Congress on Mathematical Education (ICME 10) Proceedings, Copenhagen, Denmark: IMFUFA, ISBN: 978-87-7349-733-3.

Singer, F.M., Voica, C. (2004). Dimensionality in understanding algebraic concepts, in M.J. Hoines & A.B. Fuglestad *PME28 Proceedings*, (Eds.), *Proc. 28th Conf. of the Int. Group for the Psychology of Mathematics Education* (Vol. 1, pp. 395). Bergen, Norway: PME.

Singer, M. (2004). Performanță versus competență: care este calea? In M. Cobianu și P. Alexandrescu (coord.), „*Școala românească, încotro?*”, Pitești: Paralela 45, pp. 145-152. ISBN: 973-697-320-4.

Singer, M. (2004). Manualul școlar: o poartă spre comunicare în societatea cunoașterii? Analiza manualelor școlare din perspectiva comunicării. In M. Cerkez, L. Căpiță (coord.) *Dezvoltarea competențelor de comunicare în învățământul obligatoriu*, p.19-61, București: ISE, ISBN: 973-0-03862-7.

Singer, M. (2004). *Prietenul meu, caietul de matematică pentru clasa a III-a*. București: Sigma, 80 pg.

Singer, M. (2004). *Manual de matematică pentru clasa I. Seria Prietenii*. București: Sigma, 144 pg.

Singer, M. (2004). *Manual de matematică pentru clasa a II-a. Seria Prietenii*. București: Sigma, 144 pg.

Singer, M., Voica, C. (2004). *Manual de matematică pentru clasa a X-a, M3 și SAM*, București: Sigma, 120 pg.

Singer, M., Voica, C. (2004) *Manual de matematică pentru clasa a XII- a, M3-profil uman*, Bucuresti: Sigma, 96 p. ISBN:973-649-090-4.

2003

Singer, F. M., Voica, C. (2003). Perception of infinity in school: does it really help in problem solving? In A. Rogerson (Ed.) *The Decidable and the Undecidable in Mathematics Education*, Brno: The Mathematics Education into the 21st Century Project, p. 252-256.

Singer, F.M. (2003). *From cognitive science to school practice: building the bridge*. In N.A. Pateman, B.J. Dougherty & J. Zilliox (Eds.), *Proc. 27th Conf. of the Int. Group for the Psychology of Mathematics Education* (Vol. 4, pp. 207-214). Honolulu, USA: PME.

Singer, F.M. (2003). *How Does Efficient Learning Occur – A Hypothesis*. In A. Mariotti (Ed.) *Proceedings of the 3rd Conference of the European Society for Research in Mathematics Education (CERME 3)*, Pisa: Univ. di Pisa, TG3, p.1-11.
http://www.dm.unipi.it/~didattica/CERME3/proceedings/Groups/TG3/TG3_Singer_cerme3.pdf

Singer, M., Voica, C. (2003). Perceptions on infinity, in *Proceedings CAIM 12*, pp. 42-47.

Singer, M. (2003). Reforma curriculară de la concepere la implementare. Bilant la inceput de mileniu, în L.Vlasceanu (Ed) *Școala la răscruce. Reforma și continuitate în curriculumul învățământului obligatoriu*, Iași: Polirom, pp. 130-149. ISBN: 973-681-102-6.

Singer, M., Voica, C. (2003). *Pași în înțelegerea rezolvării problemelor. Caiet de exersare structurată*, București: Sigma, 80 pg.

Singer, M., (2003). *Probe de evaluare pentru clasa a II-a. Diagnostic și recuperare-aprofundare*, București: Sigma, 64 pg.

2002

Singer, F.M. (2002). Developing mental abilities through structured teaching methodology, in: A. Rogerson (Ed.), *The Humanistic Renaissance in Mathematics Education*, Palermo: The Mathematics Education into the 21st Century Project, p. 353-357.

Singer, F.M. (2002). New ways of developing mathematical abilities. In A.D. Cockburn & E. Nardi, *Proceedings of the 26th Conference of the International Group for the Psychology of Mathematics Education*, Norwich: UEA, 1, p.368.

Singer, M. *L'éducation primaire en Roumanie - A la recherche des traditions perdues pour jouer sur les chances de l'avenir*, paper presented at the International Colloquium: *Qu'enseigne-t-on aujourd'hui en mathématiques dans les écoles élémentaires d'Europe et que pourrait-on y enseigner ?*, Paris, Grands Salons de la Sorbonne, 2002.

Singer, M., Voica, C. (2002). The matrix for structuring the competences – A useful tool to assess the school learning progress, in *Proceedings of The 11th Edition of the International Conference for Applying Mathematics*, Pitesti, pp.71-76, ISSN: 1842-3078.

Singer, M. (Coord, 2002). *Ghid metodologic pentru aria curriculară Matematică și Științe ale naturii. Liceu*, București: Editura Aramis, 208 pg., ISBN: 973-8294-57-6.

Singer, M. (Coord, 2002). *Ghid metodologic pentru aplicarea programelor școlare la matematică. Clasele I – a VIII-a.*, București: Editura Aramis, 96 pg.

Achiri, I, Raiski, V., Raileanu, A., Singer, M. (2002). *Matematică pentru clasa a VII-a – Ghidul profesorului*, (în lb.rom și rusă), Prut Internațional, 160 p. ISBN: 9975-69-286-9.

Singer, M., Voica, C. (2002). *Invățarea matematicii. Elemente de didactică aplicată pentru clasa a VIII-a – Ghidul profesorului*, Sigma, 128 pg.

2001

Singer, F.M. (2001). Structuring the information – a new way of perceiving the content of learning, *Zentralblatt für Didaktik der Mathematik (ZDM)/International Reviews on Mathematical Education*, MATHDI, 6/2001, p. 204-217. ISSN 1615-679X.

https://www.researchgate.net/publication/254378706_Information_structuring_a_new_way_of_perceiving_the_content_of_learning?ev=prf_pub

Singer, M. (2001). *Training mental capacities - a strategy to make learning efficient and effective*. In M. van den Heuvel Panhuizen (Ed.) *Proceedings of the 25th Conference of the International Group for the Psychology of Mathematics Education (PME25)*, Utrecht: Freudenthal Institute, Vol. 1, p. 218.

Singer, M. (2001). *Thinking Structures Involved In Mathematics Learning*, in: J. Novotna (Ed.), *CERME 2 Proceedings*, Prague: Charles Univ., p. 92-99.

http://www.mathematik.uni-dortmund.de/~erme/doc/CERME2_proceedings.pdf

Singer, M., Oghină, D., Sarivan, L. (2001). Noul Curriculum Național. Repere conceptuale și metodologice. În *Ghiduri metodologice pentru aplicarea programelor școlare*, București: Editura Aramis, pp. 6-22, ISBN: 973-8294-24-X.

Singer, M., Sarivan, L., Oghină, D. (2001). Metodologia aplicării noului curriculum. Proiectarea demersului didactic, în *Ghiduri metodologice pentru aplicarea programelor școlare*, București: Editura Aramis, pp. 23-32, ISBN: 973-8294-24-X.

Leahu, I., Singer, M., Leahu, D. (2001). *Proiectarea activităților de învățare la științe*. Clasele a V-a – a VI-a, București: Editura Aramis, 80 pg., ISBN: 973-8294-64-9.

Leahu, I., Singer, M. (2001). Elemente de proiectare didactică. În M. Singer (coord.) *Ghid metodologic de aplicare a programei școlare de Științe ale naturii la clasele a II-a – a IV-a*, București: Editura Aramis, pp. 6-17, ISBN: 973-8294-45-2.

Noveanu G., Tudor V., Singer M. (2001). *Învățarea matematicii și a științelor – un studiu comparativ (I)*, Raportul național al studiului TIMSS, București: Editura Aramis, 112 pg., ISBN: 973-8294-50-9.

Noveanu G., Tudor V., Singer M. (2001). *Învățarea matematicii și a științelor – un studiu comparativ (II)*, Raportul național al studiului TIMSS-R, București: Editura Aramis, 96 pg.

Voicu, A., Novceanu, D., Tinica, S., Singer M. (2001). *Utilizarea tehnologiei informației și a comunicațiilor în școală*, București: Editura Aramis, 128 pg.

Raileanu, A., Singer, M., Raischi, V., (2000). *Matematică pentru clasa a V-a – Ghidul profesorului*, (în lb.rom și rusă), Prut Internațional, 158 p. ISBN: 9975-69-122-6.

Singer, M., Voica, C. (2001). *Decupaje și colaje pentru geometria în spațiu*, București, Sigma, 64 pg.

Singer, M., Oghina, D, Sarivan, L. (coord., 2001) *Curriculum Național pentru învățământul secundar superior. Programe școlare*, Vol. 1-9, București: Cicero, 1036 p în total.

2000

Singer, M. (2000). *Classifying Word Problems - Two Perspectives*, (ICME 9) Tokyo/Makuhari, Japan.

Raischi, V., Singer, M. (2000). *Manual de matematică pentru clasa a VI-a.*, (în lb.rom și rusă), Chisinau: Editura Prut Internațional, 240 pg.

Singer, M., Voica, C. (2000). *Manual de matematică pentru clasa a X-a*, București: Sigma, 120 pg.

Singer, M. (2000). *Armonia numerelor. Culegere de probleme.*, București: Sigma, (în lb.rom și rusă), 1997, 240 pg.

Singer, M., Radu, M., Ghica, I., Drugan, G. (1998, 2000). *Probleme și teste pentru clasa a V-a*, (în lb.rom și rusă), București: Editura Sigma, 240 pg.

Singer, M. (Coord., 2000). *The New National Curriculum*. București: Ministry of National Education/Ed. Prognosis, 128 pg., ISBN: 973-99707-6-1.

Anterior anului 2000

Singer, M. (1996). Thinking patterns and skills in mathematical teaching and learning at primary level, in *Towards a modern learner – centered curriculum*, I.E.R. Belgrade, p. 150-156.

Singer, M. (1996). *Mental capacities in Mathematics learning*. In H. Bass (Ed.) Proceedings of the 8th International Congress of Mathematics Education 8, Seville, p. 236.

Singer, M. *Structures et capacités mentales dans l'apprentissage des mathématiques*, Bulletin d'Information CORDEE, No. 1/1995, Unesco, Paris, p. 27-30, 1995.

Raischi, V., Singer, M. (1998). *Matematică pentru clasa a VI-a – Ghidul profesorului*, (în lb.rom și rusă), Chisinau: Prut International, 136 pg.

Cerkez, M., Singer, M., Oghină, D., Sarivan, L., Căpiță, L., Ciolan, L., Tacea, F., Crocnan, D. (coord.,1999) *Curriculum National pentru clasa a IX-a. Programe școlare*, București: Cicero, 352 pg.

Georgescu, D., Cerkez, M., Singer, M., Preoteasa, L. (coord., 1999) *Curriculum Național. Planuri-cadru pentru învățământ*, București: Corint, 244 pg.

Singer, M., Sarivan, L., Oghină, D., Ciolan, L. (coord., 1999) *Curriculum National pentru clasa a X-a. Programe școlare*, București: Editura Cicero, 272 pg.

Cerkez, M., Crișan, A., Singer, M., Oghină, D. (coord., 1999) *Curriculum National pentru învățământul primar. Programe școlare*, București: Cicero, 244 pg.

Cerkez, M., Singer, M., Oghină, D., Sarivan, L., Căpiță, L., Ciolan, L., Tacea, F., Crocnan, D. (coord., 1999) *Curriculum National pentru învățământul gimnazial. Programe școlare*, Volumele 1-10, București: Editura Cicero, 914 p in total.

Crișan, Al., Cerkez, M., Singer, M., Oghină, D., Sarivan, L., Ciolan, L. (coord., 1998) *Curriculum Național pentru învățământul obligatoriu. Cadru de referință*, București: Corint, 48 pg.

Cerkez, M., Georgescu D., Singer, M. (coord.,1998) *Curriculum Național. Planul-cadru pentru învățământul obligatoriu*, București: Corint, 136 pg.

Singer, M., Pădureanu V., Mogos, M. (1998). *Matematică pentru clasa a IV-a – Ghidul învățătorului*, (în lb.rom și rusă), Chisinau: Prut International, 240 pg.

Singer, M., Voica, C. (1998). *Manual de matematică pentru clasa a VIII-a.*, (în lb. rom, maghiară, germană), București: Editura Sigma, 198 pg.

Singer, M., Pădureanu, V., Mogoș, (1998). *Matematică pentru clasa a IV-a – Caietul elevului*, București: Editura Sigma (în lb.rom și rusă), 96 pg.

Singer, M., Pădureanu, V. (1998). *Manual de matematică pentru clasa a IV-a*, (în lb. rom, maghiară, germană și rusă), București, S.P.H, 198 p.

Singer, M., Dăncilă, I. (1997). *Matematica – acasă, la școală, în concursuri*, București: Editura Sigma, 416 pg.

Singer, M., Răileanu, A., Pădureanu, V. *Matematică pentru clasa a III-a – Ghidul învățătorului*, (în lb.rom și rusă), Chisinau: Prut International, 256 pg., 1995, 1997.

Singer, M., Radu, N., Pădureanu, V., Chiran, R. (1996). *Matematică pentru clasa a II-a – Ghidul învățătorului*, București: Sigma, 336 pg.

Singer, M., Jancso, O. (1995, 2000). *Învățarea geometriei prin exerciții*. Clasa a VII-a, București: Editura Sigma, 164 pg.

Singer, M. (1992, 1993, 2000). *Învățarea geometriei prin exerciții*. Clasa a VI-a, București: Editura Sigma, 204 pg.