- Studies included in the synthesis of teacher and school improvement studies conducted from 2005 till 2017 presented in Chapter 7 of the book "Kyriakides, L., Creemers, B.P.M, Panayiotou, A., & Charalambous, E. (2021). Quality and Equity in Education: Revisiting Theory and Research on Educational Effectiveness and Improvement. London and New York: Routledge."
- Al Otaiba, S., Folsom, J. S., Wanzek, J., Greulich, L., Waesche, J., Schatschneider, C., & Connor, C. M. (2016). Professional development to differentiate kindergarten Tier 1 instruction: Can already effective teachers improve student outcomes by differentiating Tier 1 instruction?. *Reading & Writing Quarterly*, 32(5), 454-476. https://doi.org/10.1080/10573569.2015.1021060
- Amendum, S. J., & Fitzgerald, J. (2013). Does structure of content delivery or degree of professional development support matter for student reading growth in high-poverty settings?. *Journal of Literacy Research*, 45(4), 465-502. https://doi.org/10.1177/1086296X13504157
- Anderson-Butcher, D., Iachini, A. L., Ball, A., Barke, S., & Martin, L. D. (2016). A university–school partnership to examine the adoption and implementation of the Ohio community collaboration model in one urban school district: A mixed-method case study. *Journal of Education for Students Placed at Risk (JESPAR)*, 21(3), 190-204. https://doi.org/10.1080/10824669.2016.1183429
- Andersson, C., & Palm, T. (2017). The impact of formative assessment on student achievement: A study of the effects of changes to classroom practice after a comprehensive professional development programme. *Learning* and Instruction, 49, 92-102. https://doi.org/10.1016/j.learninstruc.2016.12.006
- Antoniou, P., & Kyriakides, L. (2013). A dynamic integrated approach to teacher professional development: Impact and sustainability of the effects on improving teacher behaviour and student outcomes. *Teaching and Teacher Education*, 29, 1-12. https://doi.org/10.1016/j.tate.2012.08.001
- Antoniou, P., Kyriakides, L., & Creemers, B. P. (2011). Investigating the Effectiveness of a Dynamic Integrated Approach to Teacher Professional Development. *Center for Educational Policy Studies Journal*, *1*(1), 13-41. Retrieved from https://www.scopus.com/inward/record.uri?eid=2-s2.0-84896973538&partnerID=40&md5=16c6eb7a167729f0f216594df514166b
- Bicer, A., & Capraro, R. M. (2017). Longitudinal Effects of Technology Integration and Teacher Professional Development on Students' Mathematics Achievement. *EURASIA Journal of*

- Mathematics Science and Technology Education, 13(3), 815-833. https://doi.org/10.12973/eurasia.2017.00645a
- Bradshaw, C. P., Koth, C. W., Bevans, K. B., Ialongo, N., & Leaf, P. J. (2008). The impact of school-wide positive behavioral interventions and supports (PBIS) on the organizational health of elementary schools. *School Psychology Quarterly*, 23(4), 462. https://doi.org/10.1037/a0012883
- Canrinus, E. T., & Fokkens-Bruinsma, M. (2014). Changes in student teachers' motives and the meaning of teacher education programme quality. *European Journal of Teacher Education*, *37*(3), 262-278. https://doi.org/10.1080/02619768.2013.845162
- Caputo, A., & Rastelli, V. (2014). School improvement plans and student achievement: Preliminary evidence from the Quality and Merit Project in Italy. *Improving Schools*, 17(1), 72-98. https://doi.org/10.1177/1365480213515800
- Castro, D. C., Gillanders, C., Franco, X., Bryant, D. M., Zepeda, M., Willoughby, M. T., & Méndez, L. I. (2017). Early education of dual language learners: An efficacy study of the Nuestros Niños School Readiness professional development program. *Early Childhood Research Quarterly*, 40, 188-203. https://doi.org/10.1016/j.ecresq.2017.03.002
- Chapman, R. L., Buckley, L., Sheehan, M., & Shochet, I. M. (2013). Pilot evaluation of an adolescent risk and injury prevention programme incorporating curriculum and school connectedness components. *Health education research*, 28(4), 612-625. https://doi.org/10.1093/her/cyt048
- Darling-Hammond, L., Holtzman, D. J., Gatlin, S. J., & Heilig, J. V. (2005). Does teacher preparation matter? Evidence about teacher certification, Teach for America, and teacher effectiveness. *Education Policy Analysis Archives/Archivos Analíticos de Políticas Educativas, 13*, 1-48. Retrieved from http://epaa.asu.edu/epaa/v13n42/
- De La Paz, S., Monte-Sano, C., Felton, M., Croninger, R., Jackson, C., & Piantedosi, K. W. (2017). A historical writing apprenticeship for adolescents: Integrating disciplinary learning with cognitive strategies. *Reading Research Quarterly*, 52(1), 31-52. https://doi.org/10.1002/rrq.147
- De Naeghel, J., Van Keer, H., Vansteenkiste, M., Haerens, L., & Aelterman, N. (2016). Promoting elementary school students' autonomous reading motivation: Effects of a teacher professional

- development workshop. *The Journal of Educational Research*, 109(3), 232-252. https://doi.org/10.1080/00220671.2014.942032
- Demetriou, D., & Kyriakides, L. (2012). The impact of school self-evaluation upon student achievement:

 A group randomisation study. *Oxford review of education*, *38*(2), 149-170. https://doi.org/10.1080/03054985.2012.666032
- Dixon, P., Schagen, I., & Seedhouse, P. (2011). The impact of an intervention on children's reading and spelling ability in low-income schools in India. *School Effectiveness and School Improvement*, 22(4), 461-482. https://doi.org/10.1080/09243453.2011.625125
- Ebbeler, J., Poortman, C. L., Schildkamp, K., & Pieters, J. M. (2016). Effects of a data use intervention on educators' use of knowledge and skills. *Studies in educational evaluation*, 48, 19-31. https://doi.org/10.1016/j.stueduc.2015.11.002
- Ebbeler, J., Poortman, C. L., Schildkamp, K., & Pieters, J. M. (2017). The effects of a data use intervention on educators' satisfaction and data literacy. *Educational assessment, evaluation and accountability*, 29(1), 83-105. https://doi.org/10.1007/s11092-016-9251-z
- Gaikhorst, L., Beishuizen, J. J., Zijlstra, B. J., & Volman, M. L. (2015). Contribution of a professional development programme to the quality and retention of teachers in an urban environment. *European Journal of Teacher Education*, 38(1), 41-57. https://doi.org/10.1080/02619768.2014.902439
- Gaikhorst, L., Beishuizen, J. J., Zijlstra, B. J., & Volman, M. L. (2017). The sustainability of a teacher professional development programme for beginning urban teachers. *Cambridge Journal of Education*, 47(1), 135-154. https://doi.org/10.1080/0305764X.2015.1125449
- Gersten, R., Dimino, J., Jayanthi, M., Kim, J. S., & Santoro, L. E. (2010). Teacher study group: Impact of the professional development model on reading instruction and student outcomes in first grade classrooms. *American Educational Research Journal*, 47(3), 694-739. https://doi.org/10.3102/0002831209361208
- Gore, J., Lloyd, A., Smith, M., Bowe, J., Ellis, H., & Lubans, D. (2017). Effects of professional development on the quality of teaching: Results from a randomised controlled trial of Quality Teaching Rounds. *Teaching and Teacher Education*, 68, 99-113. https://doi.org/10.1016/j.tate.2017.08.007

- Gregory, A., Allen, J. P., Mikami, A. Y., Hafen, C. A., & Pianta, R. C. (2014). Effects of a professional development program on behavioral engagement of students in middle and high school. *Psychology in the Schools*, 51(2), 143-163. https://doi.org/10.1002/pits.21741
- Hodges, M. G., Kulinna, P. H., van der Mars, H., & Lee, C. (2016). Knowledge in action: Fitness lesson segments that teach health-related fitness in elementary physical education. *Journal of teaching in physical education*, *35*(1), 16-26. https://doi.org/10.1123/jtpe.2014-0102
- Houtveen, A. A. M., & Van de Grift, W. J. C. M. (2007). Effects of metacognitive strategy instruction and instruction time on reading comprehension. *School Effectiveness and School Improvement*, 18(2), 173-190. https://doi.org/10.1080/09243450601058717
- Houtveen, T., & van de Grift, W. (2012). Improving reading achievements of struggling learners. *School Effectiveness and School Improvement*, 23(1), 71-93. https://doi.org/10.1080/09243453.2011.600534
- Jacob, R., Hill, H., & Corey, D. (2017). The impact of a professional development program on teachers' mathematical knowledge for teaching, instruction, and student achievement. *Journal of Research on Educational Effectiveness*, 10(2), 379-407. https://doi.org/10.1080/19345747.2016.1273411
- Jennings, P. A., Brown, J. L., Frank, J. L., Doyle, S., Oh, Y., Davis, R., Rasheed, D., DeWeese, A., DeMauro, A. A., Cham, H., & Greenberg, M. T. (2017). Impacts of the CARE for Teachers program on teachers' social and emotional competence and classroom interactions. *Journal of Educational Psychology*, 109(7), 1010–1028. https://doi.org/10.1037/edu0000187
- Jin, S. H., & Shin, S. (2012). The effect of teacher feedback to students' question-asking in large-sized engineering classes: A perspective of instructional effectiveness and efficiency. *The Asia-Pacific Educational Researcher*, 21(3), 497-506.
- Kiemer, K., Gröschner, A., Pehmer, A. K., & Seidel, T. (2015). Effects of a classroom discourse intervention on teachers' practice and students' motivation to learn mathematics and science. *Learning and instruction*, 35, 94-103. https://doi.org/10.1016/j.learninstruc.2014.10.003
- Kinzie, M. B., Whittaker, J. V., Williford, A. P., DeCoster, J., McGuire, P., Lee, Y., & Kilday, C. R. (2014). MyTeachingPartner-Math/Science pre-kindergarten curricula and teacher supports:

- Associations with children's mathematics and science learning. *Early Childhood Research Quarterly*, 29(4), 586-599. https://doi.org/10.1016/j.ecresq.2014.06.007
- Kutaka, T. S., Smith, W. M., Albano, A. D., Edwards, C. P., Ren, L., Beattie, H. L., ... & Stroup, W. W. (2017). Connecting teacher professional development and student mathematics achievement: a 4-year study of an elementary mathematics specialist program. *Journal of Teacher Education*, 68(2), 140-154. https://doi.org/10.1177/0022487116687551
- Kyriakides, L. (2005). Evaluating school policy on parents working with their children in class. *The Journal of Educational Research*, 98(5), 281-298. https://doi.org/10.3200/JOER.98.5.281-298
- Kyriakides, L., Christoforidou, M., Panayiotou, A., & Creemers, B. P. M. (2017). The impact of a three-year teacher professional development course on quality of teaching: strengths and limitations of the dynamic approach. *European Journal of Teacher Education*, 40(4), 465-486. https://doi.org/10.1080/02619768.2017.1349093
- Kyriakides, L., Creemers, B. P., Papastylianou, D., & Papadatou-Pastou, M. (2014). Improving the school learning environment to reduce bullying: An experimental study. *Scandinavian Journal of Educational Research*, 58(4), 453-478. https://doi.org/10.1080/00313831.2013.773556
- La Paz, S. D., Malkus, N., Monte-Sano, C., & Montanaro, E. (2011). Evaluating American history teachers' professional development: Effects on student learning. *Theory & Research in Social Education*, 39(4), 494-540. https://doi.org/10.1080/00933104.2011.10473465
- Lai, M. K., Wilson, A., McNaughton, S., & Hsiao, S. (2014). Improving achievement in secondary schools: Impact of a literacy project on reading comprehension and secondary school qualifications. *Reading Research Quarterly*, 49(3), 305-334. https://doi.org/10.1002/rrq.73
- Lau, W. W., & Yuen, A. H. (2013). Learning Study in Mathematics: It is for Students, Teachers, and Teacher Educators. The Asia-Pacific Education Researcher, 22(4), 377-388. https://doi.org/10.1007/s40299-012-0034-0
- Laura, B., McMeeking, S., Orsi, R., & Cobb, R. B. (2012). Effects of a teacher professional development program on the mathematics achievement of middle school students. *Journal for research in mathematics education*, 43(2), 159-181. https://doi.org/10.5951/jresematheduc.43.2.0159

- Lee, O., Llosa, L., Jiang, F., Haas, A., O'Connor, C., & Van Booven, C. D. (2016). Elementary teachers' science knowledge and instructional practices: Impact of an intervention focused on english language learners. *Journal of Research in Science Teaching*, 53(4), 579-597. https://doi.org/10.1002/tea.21314
- Lindvall, J. (2017). Two large-scale professional development programs for mathematics teachers and their impact on student achievement. *International Journal of Science and Mathematics Education*, *15*(7), 1281-1301. https://doi.org/10.1007/s10763-016-9750-x
- Magidin de Kramer, R., Masters, J., O'Dwyer, L. M., Dash, S., & Russell, M. (2012). Relationship of online teacher professional development to seventh-grade teachers' and students' knowledge and practices in English language arts. *The Teacher Educator*, 47(3), 236-259. https://doi.org/10.1080/08878730.2012.685795
- Miller, A., Eather, N., Gray, S., Sproule, J., Williams, C., Gore, J., & Lubans, D. (2017). Can continuing professional development utilizing a game-centred approach improve the quality of physical education teaching delivered by generalist primary school teachers? *European Physical Education Review*, 23(2), 171-195. https://doi.org/10.1177/1356336X16642716
- Moosavi, S. A. N. (2007). An integrated holistic method for teaching introductory German to community college students. *Community College Journal of Research and Practice*, *31*(10), 797-812. https://doi.org/10.1080/10668920701613367
- Muijs, D. (2015). Improving schools through collaboration: a mixed methods study of school-to-school partnerships in the primary sector. *Oxford Review of Education*, 41(5), 563-586. https://doi.org/10.1080/03054985.2015.1047824
- Nadelson, L. S., Callahan, J., Pyke, P., Hay, A., Dance, M., & Pfiester, J. (2013). Teacher STEM perception and preparation: Inquiry-based STEM professional development for elementary teachers. *The Journal of Educational Research*, 106(2), 157-168. https://doi.org/10.1080/00220671.2012.667014
- Navarro, S., Zervas, P., Gesa, R., & Sampson, D. (2016). Developing teachers' competences for designing inclusive learning experiences. *Educational Technology and Society*, *19*(1), 17-27. Retrieved from https://www.jstor.org/stable/jeductechsoci.19.1.17

- Nichols, K., Burgh, G., & Kennedy, C. (2017). Comparing two inquiry professional development interventions in science on primary students' questioning and other inquiry behaviours. *Research in Science Education*, 47(1), 1-24. https://doi.org/10.1007/s11165-015-9487-5
- Paprzycki, P., Tuttle, N., Czerniak, C. M., Molitor, S., Kadervaek, J., & Mendenhall, R. (2017). The impact of a Framework-aligned science professional development program on literacy and mathematics achievement of K-3 students. *Journal of Research in Science Teaching*, 54(9), 1174-1196. https://doi.org/10.1002/tea.21400
- Parveen, Z. (2017). Educational Effectiveness Of The 5e Model For Scientific Achievement Of Students
 With Hearing Impairment. *Journal of Baltic Science Education*, 16(5), 723-732. Retrieved from http://www.scientiasocialis.lt/jbse/
- Pehmer, A. K., Gröschner, A., & Seidel, T. (2015). How teacher professional development regarding classroom dialogue affects students' higher-order learning. *Teaching and Teacher Education*, 47, 108-119. https://doi.org/10.1016/j.tate.2014.12.007
- Piper, B., Ralaingita, W., Akach, L., & King, S. (2016). Improving procedural and conceptual mathematics outcomes: evidence from a randomised controlled trial in Kenya. *Journal of Development Effectiveness*, 8(3), 404-422. https://doi.org/10.1080/19439342.2016.1149502
- Player, D., & Katz, V. (2016). Assessing school turnaround: Evidence from Ohio. *The Elementary School Journal*, 116(4), 675-698. https://doi.org/10.1086/686467
- Robinson, A., Dailey, D., Hughes, G., & Cotabish, A. (2014). The effects of a science-focused STEM intervention on gifted elementary students' science knowledge and skills. *Journal of Advanced Academics*, 25(3), 189-213. https://doi.org/10.1177/1932202X14533799
- Rodgers, E., D'Agostino, J. V., Harmey, S. J., Kelly, R. H., & Brownfield, K. (2016). Examining the nature of scaffolding in an early literacy intervention. *Reading Research Quarterly*, 51(3), 345-360. https://doi.org/10.1002/rrq.142
- Ruby, A. (2006). Improving science achievement at high-poverty urban middle schools. *Science Education*, 90(6), 1005-1027. https://doi.org/10.1002/sce.20167

- San Antonio, D. M., Morales, N. S., & Moral, L. S. (2011). Module-based professional development for teachers: a cost-effective Philippine experiment. *Teacher development*, 15(2), 157-169. https://doi.org/10.1080/13664530.2011.571496
- Sandholtz, J. H., & Ringstaff, C. (2011). Reversing the downward spiral of science instruction in K-2 classrooms. *Journal of science teacher education*, 22(6), 513-533. https://doi.org/10.1007/s10972-011-9246-z
- Saunders, W. M., Goldenberg, C. N., & Gallimore, R. (2009). Increasing Achievement by Focusing Grade-Level Teams on Improving Classroom Learning: A Prospective, Quasi-Experimental Study of Title I Schools. *American Educational Research Journal*, 46(4), 1006 1033. https://doi.org/10.3102/0002831209333185
- Schueler, B. E., Goodman, J. S., & Deming, D. J. (2017). Can states take over and turn around school districts? Evidence from Lawrence, Massachusetts. *Educational Evaluation and Policy Analysis*, 39(2), 311-332. https://doi.org/10.3102/0162373716685824
- Sedova, K., Sedlacek, M., & Svaricek, R. (2016). Teacher professional development as a means of transforming student classroom talk. *Teaching and Teacher Education*, 57, 14-25. https://doi.org/10.1016/j.tate.2016.03.005
- Springer, M. G., Swain, W. A., & Rodriguez, L. A. (2016). Effective teacher retention bonuses: Evidence from Tennessee. *Educational Evaluation and Policy Analysis*, 38(2), 199-221. https://doi.org/10.3102/0162373715609687
- Stone III, J. R., Alfeld, C., & Pearson, D. (2008). Rigor and relevance: Enhancing high school students' math skills through career and technical education. *American Educational Research Journal*, 45(3), 767-795. https://doi.org/10.3102/0002831208317460
- Sun, M., Penner, E. K., & Loeb, S. (2017). Resource-and approach-driven multidimensional change: Three-year effects of school improvement grants. *American Educational Research Journal*, 54(4), 607-643. https://doi.org/10.3102/0002831217695790
- Tymms, P., Merrell, C., Thurston, A., Andor, J., Topping, K., & Miller, D. (2011). Improving attainment across a whole district: school reform through peer tutoring in a randomized controlled trial. *School Effectiveness and School Improvement*, 22(3), 265-289. https://doi.org/10.3102/0002831217695790

- Van Geel, M., Keuning, T., Visscher, A. J., & Fox, J. P. (2016). Assessing the effects of a school-wide data-based decision-making intervention on student achievement growth in primary schools. *American Educational Research Journal*, 53(2), 360-394. https://doi.org/10.3102/0002831216637346
- van Kuijk, M. F., Deunk, M. I., Bosker, R. J., & Ritzema, E. S. (2016). Goals, data use, and instruction: the effect of a teacher professional development program on reading achievement. *School Effectiveness and School Improvement*, 27(2), 135-156. https://doi.org/10.1080/09243453.2015.1026268
- Walker, A., Recker, M., Ye, L., Robertshaw, M. B., Sellers, L., & Leary, H. (2012). Comparing technology-related teacher professional development designs: A multilevel study of teacher and student impacts. *Educational technology research and development*, 60(3), 421-444. https://doi.org/10.1007/s11423-012-9243-8
- Wang, S. K., Hsu, H. Y., Reeves, T. C., & Coster, D. C. (2014). Professional development to enhance teachers' practices in using information and communication technologies (ICTs) as cognitive tools:
 Lessons learned from a design-based research study. *Computers & Education*, 79, 101-115.
 https://doi.org/10.1016/j.compedu.2014.07.006
- Wolf, S., Torrente, C., Frisoli, P., Weisenhorn, N., Shivshanker, A., Annan, J., & Aber, J. L. (2015). Preliminary impacts of the "Learning to Read in a Healing Classroom" intervention on teacher well-being in the Democratic Republic of the Congo. *Teaching and Teacher Education*, 52, 24-36. https://doi.org/10.1016/j.tate.2015.08.002
- Yoshikawa, H., Leyva, D., Snow, C. E., Treviño, E., Barata, M., Weiland, C., ... & Arbour, M. C. (2015). Experimental impacts of a teacher professional development program in Chile on preschool classroom quality and child outcomes. *Developmental psychology*, *51*(3), 309-322. https://doi.org/10.1037/a0038785
- Yurtseven, N., & Altun, S. (2017). Understanding by Design (UbD) in EFL Teaching: Teachers' Professional Development and Students' Achievement. *Educational Sciences: Theory and Practice*, 17(2), 437-461. https://doi.org/10.12738/estp.2017.2.0226