

**Supplementary Materials:** List of excluded articles and exclusion criteria (with a \* those who were not located)

Excluded article (first author, title, year)	Exclusion criteria		
	Not addressed to teachers or educators	Not about sustainability or sustainable development	Not a competence s framework
[No author name available], "ASCILITE 2012 -Annual conference of the Australian Society for Computers in Tertiary Education", 2012.		1	
[No author name available], "Informatics in Schools: Sustainable Informatics Education for Pupils of all Ages - 6th International Conference on Informatics in Schools: Situation, Evolution, and Perspectives, ISSEP 2013, Proceedings", 2013.		1	
[No author name available], "International Conference on Knowledge Society: Technology, Sustainability and Educational Innovation, TSIE 2019", 2020.			1
[No author name available], "Proceedings of the International Conference on Computers in Education 2005: ""Towards Sustainable and Scalable Educational Innovations Informed by the Learning Sciences"" - Sharing Research Results and Exemplary Innovations, ICCE 2005", 2005.		1	
Abereijo I.O., "Entrepreneurship education: Opportunities, challenges and future directions", 2018.		1	
Abildsnes E., Stea T.H., Berntsen S., Omfjord C.S., Rohde G., "Physical education Teachers' and public health Nurses' perception of Norwegian high school Students' participation in physical education - a focus group study", 2015.		1	
Abou- Warda S.H., "New educational services development: Framework for technology entrepreneurship education at universities in Egypt", 2016.		1	
Abro S.R., Cuper J., "Hands- on manufacturing engineering - An analytical study", 2011.		1	1
Adams D., "Lifelong learning skills and attributes: The perceptions of Australian secondary school teachers", 2007.	1	1	
Ahmed S., Sclafani A., Aquino E., Kala S., Barias L., Eeg J., "Building student capacity to lead sustainability transitions in the food system through farm-based authentic research modules in sustainability sciences (FARMS)", 2017.	1		1
*Allan M., Chisholm C.U., "Achieving Engineering Competencies in the Global Information Society through the Integration of On-Campus and Workplace Environments", 2008.			
Allan M., Chisholm C.U., "The development of competencies for engineers within a global context""2008.	1		1
Allen S.S., Miller J., Ratner E., Santilli J., "The educational and financial impact of using patient educators to teach introductory physical exam skills", 2011.		1	
Alsina Á., Mulà I., "Advancing towards a transformational professional competence model through reflective learning and sustainability: The case of mathematics teacher education", 2019.			1
Álvarez-Nieto C., Richardson J., Parra-Angueta G., Linares-Abad M., Huss N., Grande-Gascón M.L., Grose J., Huynen M., López-Medina I.M., "Developing digital educational materials for nursing and sustainability: The results of an observational study", 2018.	1		
Andenoro A.C., Bletscher C.G., "Transforming the international learning experience for students: Moving beyond the principle of accompaniment", 2012.	1		1
Anderson C.I., Gupta R.N., Larson J.R., Abubars O.I., Kwiecien A.J., Lake A.D., Hozain A.E., Tanious A., O'Brien T., Basson M.D., "Impact of objectively assessing surgeons' teaching on effective perioperative instructional behaviors", 2013.		1	
*Andić D., Vorkapić S.T., "Interdisciplinary approaches to sustainable development in higher education: A case study from Croatia", 2014.			

Andrews J., Meadows L., Oguntebi J., "Engineering graduate students: Engaging today's teachers, training tomorrow's scientists and engineers, and opening new academic and career paths for K-12 students", 2008.		1	
Andrews M., Brewer M., Buchan T., Denne A., Hammond J., Hardy G., Jacobs L., McKenzie L., West S., "Implementation and sustainability of the nursing and midwifery standards for mentoring in the UK", 2010.	1		1
Angelini D.J., O'Brien B., Singer J., Coustan D.R., "Midwifery and Obstetrics. Twenty Years of Collaborative Academic Practice.", 2012.		1	
Aqlan F., Dunsworth Q., Ford M.R., George Walters E., III, Resig J., "A program to improve manufacturing learning using simulation and automation", 2019.		1	1
Arati D., Todorova A., Merrett R., "Implementation and sustainability of a global ICT company's programme to help teachers integrate technology into learning and teaching in Germany, France and the UK", 2011.		1	
*Araújo Álvarez R., Lorenzo Rial M.A., Varela Losada M., Álvarez Lires M.M., "Educating in sustainable development: The contents of gender and environment [Educando en desarrollo sustentable: El índice de género y medioambiente]", 2015.			
Archbold S., O'Donoghue G.M., "Ensuring the long-term use of cochlear implants in children: The importance of engaging local resources and expertise", 2007.		1	
Armstrong G., Headrick L., Madigosky W., Ogrinc G., "Designing education to improve care", 2012.		1	
Arora A.S., "The ""organization"" as an interdisciplinary learning zone: Using a strategic game to integrate learning about supply chain management and advertising", 2012.		1	1
Arsat M., Holgaard J.E., De Graaff E., "Effectiveness of sustainability in engineering education: Research methods", 2012.	1		
Asif T., Guangming O., Haider M.A., Colomer J., Kayani S., ul Amin N., "Moral education for sustainable development: Comparison of university teachers' perceptions in China and Pakistan", 2020.			1
*Aubrecht K.B., Bourgeois M., Brush E.J., Mackellar J., Wissinger J.E., "Integrating Green Chemistry in the Curriculum: Building Student Skills in Systems Thinking, Safety, and Sustainability", 2019.			
Azcárate P., Navarrete A., García E., "Approach to the level of inclusion of sustainability in university curricula [Aproximación al nivel de inclusión de la sostenibilidad en los curricula universitarios]", 2012.			1
Bacon R., Kellett J., Dart J., Knight-Agarwal C., Mete R., Ash S., Palermo C., "A Consensus Model: Shifting assessment practices in dietetics tertiary education", 2018.		1	
*Bain Y., Brosnan K., McGuigan A., "Transforming practice, transforming practitioners: reflections on the TQFE in Scotland", 2019.		1	
Baker C.M., Rilett L.R., Kunz G.M., Nugent G.C., "Roads, rails and race cars: A STEM educational program for 4 th-12th grade students", 2014.		1	
Baldissera P., Delprete C., "Human powered vehicle design: A challenge for engineering education", 2014.	1		1
Baldwin C.D., Chandran L., Gusic M.E., "Building sustainable professional development programs: Applying strategies from implementation science to translate evidence into practice", 2017.		1	
Barakabitze A.A., William-Andey Lazaro A., Ainea N., Mkwizu M.H., Maziku H., Matofali A.X., Iddi A., Sanga C., "Transforming African Education Systems in Science, Technology, Engineering, and Mathematics (STEM) Using ICTs: Challenges and Opportunities", 2019.		1	
Barakat N., Plouff C., "A model for on-line education of ABET-required professional aspects of engineering", 2014.	1		
Barraza L., Castaño C., "Can science education help to build a sustainable society? [Puede la enseñanza de la ciencia ayudar a construir una sociedad sostenible?]", 2012.			1
Barrett J., Hodgson J., "Hospital simulated patient programme: A guide", 2011.		1	
Basantes-Andrade A., Cabezas-González M., Casillas-Martín S., "Digital Competences in e-learning. Case Study: Ecuador", 2020.		1	
*Bauermeister M.L., Diefenbacher L.H., "Beyond Recycling: Guiding Preservice Teachers to Understand and Incorporate the Deeper Principles of Sustainability", 2015.			

Bedford D., Garcia-Perez A., Georgieff M., Brown-Grant J., "Knowledge management education standards: Developing practical guidance", 2018.	1		
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Bekaroo G., Bokhoree C., Ramsamy P., Moedeen W., "Investigating personal carbon emissions of employees of higher education institutions: Insights from Mauritius", 2019.			1
Bellini D., Crescentini A., Zanolli G., Cubico S., Favretto G., Faccincani L., Ardolino P., Ganesini G., "Mathematical Competence Scale (MCS) for primary school: The psychometric properties and the validation of an instrument to enhance the sustainability of talents development through the numeracy skills assessment", 2019.	1		
Belu R.G., Chiou R., Ghaisas K., Tseng T.-L.B., "Teaching renewable energy systems design and analysis with HOMER", 2014.	1		1
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Benton G., "Global awareness, global stewardship and the greening of maritime education", 2020.	1		
Besong F., Holland C., "The Dispositions, Abilities and Behaviours (Dab) Framework for Profiling Learners' Sustainability Competencies in Higher Education", 2015.	1		
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Blatti J.L., Garcia J., Cave D., Monge F., Cuccinello A., Portillo J., Juarez B., Chan E., Schwebel F., "Systems Thinking in Science Education and Outreach toward a Sustainable Future", 2019.	1		
Boehnert J.J., "Transformative learning in sustainable design education", 2011.	1		
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Bokhoree C., Jheengut A., Bholah R., "Environmental clubs as vehicles for promoting education for environmental sustainability in Mauritian secondary schools", 2012.			1
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Bratitsis T., Meireles G., Neto C., "WeAreEurope: An online game for European citizenship education for primary school", 2017.	1	1	
*Braun-Wanke K., "Learning and teaching for a sustainable future", 2017.			
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Brendel N., "(How) do students reflect on sustainability?: A model to diagnose and foster reflective thinking about sustainability", 2019.			1
Brindesi H., Diakonou M.K., Tsantilas S., Kapidakis S., "Building an information literacy program for high school students of Greece in close cooperation with a local special library", 2015.	1		
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Butler D., Leahy M., Hallissy M., Brown M., "Embedding classroom practice in a 21st Century Learning Design (21CLD) MOOC framework",2016.	1	
Butler J.I., Storey B., Robson C., "Emergent learning focused teachers and their ecological complexity worldview",2014.	1	
Caballero-García P.A., Tortajada E.G., Pilar Jiménez Martínez Ma., "Creativity, entrepreneurship and happiness: Ingredients for a high education change",2017.	1	1
Caetano N., Rocha J., Quadrado J.C., Cardoso J.M., Felgueiras M.C., "Teaching sustainability in a multicultural environment",2015.		1
Canada A.N., "Probing the relationship between evidence-based practice implementation models and critical thinking in applied nursing practice",2016.	1	
Candra Masrul A., Shen Z., Guo X., Sugihara K., Nishino T., "Feasibility study of mixed reality on education of design and planning students based on Bloom taxonomy",2019.	1	1
Cantell H., Tolppanen S., Aarnio-Linnanvuori E., Lehtonen A., "Bicycle model on climate change education: presenting and evaluating a model",2019.	1	
Carayon P., "Human factors in patient safety as an innovation",2010.	1	
Carson K.I., "Agricultural training and the labour productivity challenge",2018.	1	1
Carter-Pokras O., Bereksyey S., Lie D., Braddock 3rd. C.H., National Consortium for Multicultural Education for Health Professionals, "Surmounting the unique challenges in health disparities education: a multi-institution qualitative study.",2010.	1	
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Caudle L.A., "Teachers and teaching: Global practices, challenges, and prospects",2018.	1	
Cepic R., Vorkapi? S.T., Lon?ari? D., Andi? D., Mihi, S. S. Considering transversal competences, personality and reputation in the context of the teachers' professional development",2015.		1
Chandra-Mouli V., Plesons M., Sullivan E., Gonsalves L., Say L., "38.8 million additional modern contraceptive users: This, in fact, is ""a never-before opportunity to strengthen investment and action on adolescent contraception""",2018.	1	
Chen J.J., Martin A., Erdosi-Mehaffey V., "The Process and Impact of the Infant/Toddler Credential as Professional Development: Reflections from Multiple Perspectives and Recommendations for Policy",2017.	1	
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Cheng A., Grant V., Huffman J., Burgess G., Szyld D., Robinson T., Eppich W., "Coaching the Debrief",2017,.	1	
Cheng E., "Knowledge strategies for enhancing school learning capacity",2012.	1	
Chi Y., Qin Y., Song R., Xu H., "Knowledge graph in smart education: A case study of entrepreneurship scientific publication management",2018.		1
Chinedu C.C., Wan Mohamed W.A., Ajah A.O., "A systematic review on education for sustainable development: Enhancing tve teacher training programme",2018.		1
Chiou R.Y., Belu R., Mauk M., Tseng T.-L., "Green energy manufacturing laboratory development for student learning experience on sustainability",2014.	1	1
Chopra R., Joshi A., Nagarajan A., Fomproix N., Shashidhara L.S., "Climate Change Education Across the Curriculum",2019.		1
Chun A.M.S., Brisson I.E., "Ground Rules in Humanitarian Design",2015.	1	1
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Cinque M., Bortoluzzi M., "Promoting digital skills and critical awareness through online search and personal knowledge management: A case study", 2013.			1
Claramita M., Setiawati E.P., Kristina T.N., Emilia O., Van Der Vleuten C., "Community-based educational design for undergraduate medical education: A grounded theory study", 2019.		1	1
*Collado-Ruano J., Morillo M.M., González F.J.A., "Education and good-living: Transdisciplinary skills for teachers training [Éducation et bien-vivre: Compétences transdisciplinaires pour la formation des enseignants]", 2019.			
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Contreras M.F.S., Murga-Menoyo M.Á., "Place-based education: An approach for a sustainable curriculum in higher education [Place-based education: Une stratégie pour l'incorporation de la durabilité dans le curriculum de l'enseignement supérieur] [Place-based education: Una estrategia para la sostenibilización curricular de la educación superior]", 2019.			1
Corbett M.C., Mathenge W., Zondervan M., Astbury N., "Cascading training the trainers in ophthalmology across Eastern, Central and Southern Africa", 2017.		1	
Cotgrave A.J., Kokkarinen N., "Promoting sustainability literacy in construction students: Implementation and testing of a curriculum design model", 2011.	1		1
Cotterell D., Hales R., Arcodia C., Ferreira J.-A., "Overcommitted to tourism and under committed to sustainability: the urgency of teaching "strong sustainability" in tourism courses", 2019.	1		1
Coutinho A.J., Bhuyan N., Gits A., Alavi M., Ho T., Shiraki J., Dakis K., Jojola C., Stisher C.S., Ely P., "Student and resident involvement in family medicine for America's health: A step toward leadership development", 2019.		1	
Cowan C., Barrella E., Watson M.K., Anderson R., "Validating content of a sustainable design rubric using established frameworks", 2017.	1	1	
Cundiff G.W., Geoffrion R., "An Assessment of the Continuing Surgical Education Program, a Surgical Preceptor Program for Faculty Members", 2016.		1	
Dakers J.R., "The hegemonic behaviorist cycle", 2005.			1
Dal Magro R., Pozzebon M., Schutel S., "Enriching the intersection of service and transformative learning with Freirean ideas: The case of a critical experiential learning programme in Brazil", 2020.		1	
Dancz C.L.A., Ketchman K.J., Burke R., Mahmud R., Bilec M.M., Parrish K., Adams E.A., Allenby B., Landis A.E., "Integrating sustainability grand challenges and experiential learning into engineering curricula: Years 1 through 3", 2016.		1	
Daubenmire P.L., van Opstal M.T., Hall N.J., Wunarb B., Kowrach N., "Using the chemistry classroom as the starting point for engaging urban high school students and their families in pro-environmental behaviors", 2017.		1	
Davini V., Marchionne I., Pandolfini E., "Generating a new idea of public mission for universities. a sustainable communication paradigm for community building", 2019.		1	
Day S.W., Garcia J., Antillon F., Wilimas J.A., McKeon L.M., Carty R.M., de Alarcon P., Pui C.-H., Ribeiro R.C., Howard S.C., "A sustainable model for pediatric oncology nursing education in low-income countries", 2012.		1	
De Eyto A., "Growing oak trees'-education for sustainable design: Building a sustainable design literacy in undergraduate and professional designers", 2014.			1
de Langen F.H.T., "Sustainability of Open Education through collaboration", 2018.		1	
Deckard C., Marcarelli K., Benson S., McCormick H.M., "Breathing life into the science fair process", 2011.			1
Delphin E., Davidson M., "Teaching and evaluating group competency in systems-based practice in anesthesiology", 2008.		1	

Depešová J., Tureková I., "Implementation model of teaching practice with the application of a videoconference system", 2015.			1
Desha C., Hargroves K., "Informing engineering education for sustainable development using ad deliberative dynamic model for curriculum renewal", 2011.			1
Deutschlander S., Suter E., Lait J., "Models in interprofessional education: The IP enhancement approach as effective alternative", 2012.		1	
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*Dieleman H., Juárez-Nájera M., "How can design education for sustainability? [¿cómo se puede diseñar educación para la sustentabilidad?]", 2008.			
Djermanov J., Kostovic S., Kosanovic M., Egic B., Oljaca M., Djukic M., Borovica T., "Pedagogical reception of information and communication technology in education", 2011.		1	
Dlouhá J., Burandt S., "Design and evaluation of learning processes in an international sustainability oriented study programme. in search of a new educational quality and assessment method", 2015.	1		
Domingo J.M.C., Fernández J.C., Goded P.A., "A tool for analyzing the practical activities in initial training of secondary teachers of science and mathematics from the perspective of sustainability [Un instrumento para analizar las actividades prácticas en la formación inicial del profesorado de Secundaria de Ciencias y Matemáticas desde la perspectiva de la sostenibilidad]", 2015.			1
Dorsey R.J., Howard A.M., "Measuring the effectiveness of robotics activities in underserved K-12 communities outside the classroom", 2011.	1	1	
Dorsey S., Gray C.L., Wasonga A.I., Amanya C., Weiner B.J., Belden C.M., Martin P., Meza R.D., Weinhold A.K., Soi C., Murray L.K., Lucid L., Turner E.L., Mildon R., Whetten K., "Advancing successful implementation of task-shifted mental health care in low-resource settings (BASIC): Protocol for a stepped wedge cluster randomized trial", 2020.		1	
Downey G., "Teaching reading with television: Constructing closed captioning using the rhetoric of literacy", 2010.			1
Drachler H., Kicken W., Van Der Klink M., Stoyanov S., Boshuizen H.P.A., Barach P., "The Handover Toolbox: A knowledge exchange and training platform for improving patient care", 2012.		1	
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Dyson K., Kruger E., Tennant M., "A decade of experience evolving visiting dental services in partnership with rural remote Aboriginal communities", 2014.	1	1	1
Egger A.E., Kastens K.A., Turrin M.K., "Sustainability, the next generation science standards, and the education of future teachers", 2017.			1
Ehlig-Economides C., Ezrailson C.M., Talreja R., "Reading, writing - Energy: An NSF CCLI project to enhance a freshman core curriculum natural science course", 2008.	1		
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Enoka I.S., Petrini M.A., Turale S., "Samoan Philosophy of Nursing: A basis for culturally proficient care and policy", 2014.	1	1	1
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*Fehr M., "Overcoming Established Thinking Models: The Role of Engineering Education in Environmental Sustainability", 2003.		1
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