

Table S1. Description of search strings used for CSA literature identification

Search Term Focus	Boolean Search Term
Crop production	agric* OR "agric* system*" OR "crop prod*" OR "crop prod* system*" OR "cropping system*" OR farm* OR "farm* system*" OR pract* OR "agric* pract*" OR techn* OR "agric* techn*" OR "crop* pract*" OR "food prod*" OR "food prod* system*" OR "food system*" OR variet* OR "crop variet*" OR cultivar* OR "crop cultivar*" OR agro* OR "agro* system*" OR "agric* intensification" OR "agro* intensification"
Crop protection	"crop protect*" OR "pest control*" OR "pest manag*" OR "pest manag* pract*" OR "pest manag* techn*" OR "disease control*" OR "disease manag*" OR "disease manag* pract*" OR "disease manag* techn*" OR "weed control*" OR "weed manag*" OR "weed manag* pract*" OR "weed manag* techn*" OR "integrated pest management" OR IPM OR "integrated pest control" OR "integrated disease control" OR "integrated weed management"
Soil and land	soil* OR "soil health" OR "soil manag*" OR "soil manag* techn*" OR "soil manag* pract*" OR "soil fertility" OR "soil fertility manag*" OR "soil fertility manag* pract*" OR "soil fertility manag* techn*" OR "soil nutrient manag*" OR "soil nutrient* manag* pract*" OR "soil nutrient* manag* techn*" OR "integrated soil fertility management" OR "integrated soil nutrient management" OR "soil conservation" OR "soil and water conservation" OR "soil water harvest*" OR "soil water collection" OR "soil water conservation" OR land* OR "land health" OR "land manag*" OR "land manag* pract*" OR "land manag* techn*" OR "land fertility manag* pract*" OR "land fertility manag* techn*"
Water management	water* OR "water manag*" OR irrigation OR "micro irrigation" OR "irrigation pract*" OR "irrigation system*" OR "water harvest*" OR "water collection" OR "water collection pract*" OR "water harvest* system*" OR "water harvest* pract*" OR "rainfed system*" OR "rainfed agric*" OR "rainfed agric* system*" OR "rainfed farm*" OR "rainfed farm* system*" OR "water saving irrigation" OR "water saving agric* pract*" OR "water conservation" OR "agric* water conservation" OR "agric* water harvest*" OR "agric* water collection" OR "agric* water" OR "agric* water saving" OR "agric* water saving tech*" OR "agric* water harvest* pract*" OR "agric* water harvest* techn*"
Postharvest	harvest* OR "post-harvest*" OR "postharvest*" OR "harvest* techn*" OR "harvest* pract*" OR "harvest* method*" OR "postharvest* system*" OR "postharvest* techn*" OR "postharvest* meth*"
Livestock	livestock OR "livestock system*" OR "livestock prod*" OR "livestock prod* system*" OR "livestock farm*" OR "animal farm*" OR "animal prod*" OR "animal prod* system*" OR herd* OR "animal rearing" OR cattle OR sheep OR goat* OR pig* OR poultry OR ruminant OR pastoral* OR "pastoral system*" OR "animal husbandry" OR pasture* OR "pasture crop*" OR graz* OR "crop-livestock" OR "crop-livestock system*" OR agrosilvopasto* OR "agrosilvopasto* system*" OR agropasto* OR "agropasto* system*"
Fisheries and aquaculture	fish* OR "fish* prod*" OR "fish* system*" OR "fish* prod* system*" OR "fish* pract*" OR "fish* techn*" OR aquacult* OR "aquacult* prod*" OR "aquacult* system*" OR "fish* pond*" OR "integrated aquacult*" OR "integrated aquacult* system*"

Table S2. Categorization of CSA publications according to institutional dimensions

Institutional dimensions	Publications
Knowledge infrastructure (n=66, 86.84%)	Ajayi & Catacutan, 2012; Alem, Eggert, & Ruhinduka, 2015; Arakelyan & Moran, 2015; Bendito & Twomlow, 2015; Beuchelt & Badstue, 2013; Bogdanski, 2012; Branca, Lipper, & Sorrentino, 2015; Brandt et al., 2017; Campbell et al., 2014; Cano, Trivino, & Jamieson, 2016; Cattaneo & Lipper, 2016; Chandra et al., 2016; Descheemaeker et al., 2016; Dougill et al., 2016; Douxchamps et al., 2016; Engel & Muller, 2016; García de Jalón, Silvestri, & Barnes, 2016; Giller et al., 2015; Harvey et al., 2014; Jat et al., 2016; Jost et al., 2016; Khapung, 2016; Khatri-Chhetri et al., 2017; Korkala, Hugg, & Jaakkola, 2014; Kpadonou et al., 2017; Li et al., 2016; Lipper et al., 2014; Lobo, Chattopadhyay, & Rao, 2017; Long, Blok, & Coninx, 2016; Maharaj, Singh-Ackbarali, & Sankat, 2014; Makate et al., 2016; Mäkinieimi & Vainio, 2014; Manalo et al., 2016; Mittal, 2016; Msalya et al., 2016; Murage et al., 2015; Mwongera et al., 2017; Negra et al., 2014; Neufeldt et al., 2013; Notenbaert et al., 2017; Pillarisetti & Tisdell, 2013; Pulkkinen et al., 2016; Quail et al., 2016; Saathoff et al., 2013; Sain et al., 2017; Salvini, Ligtenberg, et al., 2016; Salvini et al., 2016; Sanou et al., 2016; Schaller, Kantelhardt, & Drösler, 2011; Scherr, Shames, & Friedman, 2012; Shames et al., 2016; Shirsath et al., 2017; Simelton, Dam, & Catacutan, 2015; Singh, 2012; Solomon et al., 2016; Steenwerth et al., 2014; Stockwell & Bitan, 2012; Thierfelder et al., 2016; Tjärnemo & Södahl, 2015; Ureta et al., 2016; Whitfield et al., 2015; Wong, 2016; Zhang et al., 2015; Zougmore et al., 2016
Physical infrastructure (n=20, 26.32%)	Ajayi & Catacutan, 2012; Akter et al., 2016; Bendito & Twomlow, 2015; Brandt et al., 2017; Descheemaeker et al., 2016; Douxchamps et al., 2016; Jost et al., 2016; Kpadonou et al., 2017; Maharaj et al., 2014; Makate et al., 2016; Msalya et al., 2016; Murray et al., 2016; Mwongera et al., 2017; Quail et al., 2016; Scherr et al., 2012; Singh, 2012; Steenwerth et al., 2014; Wong, 2016; Zhang et al., 2015; Zougmore et al., 2016
Hard institutional (n=56, 73.68%)	Aby et al., 2014; Ajayi & Catacutan, 2012; Akter et al., 2016; Arakelyan & Moran, 2015; Arslan et al., 2015; Bendito & Twomlow, 2015; Beuchelt & Badstue, 2013; Bogdanski, 2012; Böttcher et al., 2012; Branca et al., 2015; Brandt et al., 2017; Campbell et al., 2014; Cattaneo & Lipper, 2016; Chandra et al., 2016; Descheemaeker et al., 2016; Dougill et al., 2016; Engel & Muller, 2016; Fischer, Reddy, & Rao, 2016; García de Jalón et al., 2016; Giller et al., 2015; Harvey et al., 2014; Jat et al., 2016; Jost et al., 2016; Khapung, 2016; Kpadonou et al., 2017; Li et al., 2016; Lipper et al., 2014; Lobo et al., 2017; Long et al., 2016; Maharaj et al., 2014; Msalya et al., 2016; Murray et al., 2016; Mwongera et al., 2017; Negra et al., 2014; Neufeldt et al., 2013; Notenbaert et al., 2017; Pillarisetti & Tisdell, 2013; Quail et al., 2016; Saathoff et al., 2013; Sain et al., 2017; Salvini, Ligtenberg, et al., 2016; Salvini, van Paassen, et al., 2016; Schaller et al., 2011; Scherr et al., 2012; Scholtz et al., 2014; Schroth, Garcia et al., 2016; Shames et al., 2016; Sharma, Chauhan, & Tripathi, 2016; Shirsath et al., 2017; Simelton et al., 2015; Singh, 2012; Steenwerth et al., 2014; Whitfield et al., 2015; Wong, 2016; Zhang et al., 2015; Zougmore et al., 2016
Soft institutional (n=43, 56.58%)	Aby et al., 2014; Ajayi & Catacutan, 2012; Akter et al., 2016; Arakelyan & Moran, 2015; Arslan et al., 2015; Beuchelt & Badstue, 2013; Brandt et al., 2017; Descheemaeker et al., 2016; Engel & Muller, 2016; Fischer et al., 2016; García de Jalón et al., 2016; Hammond et al., 2017; Harvey et al., 2014; Jost et al., 2016; Khapung, 2016; Khatri-Chhetri et al., 2017; Korkala et al., 2014; Kpadonou et al., 2017; Li et al., 2016; Long et al., 2016; Maharaj et al., 2014; Makate et al., 2016; Mäkinieimi & Vainio, 2014; Mittal, 2016; Msalya et al., 2016; Murage, Midega, et al., 2015; Murage, Pittchar, et al., 2015; Murray et al., 2016; Mwongera et al., 2017; Negra et al., 2014; Pulkkinen et al., 2016; Quail et al., 2016; Salvini, van Paassen, et al., 2016; Schaller et al., 2011; Scherr et al., 2012; Shames et al., 2016; Simelton et al., 2015; Singh, 2012; Steenwerth et al., 2014; Tjärnemo & Södahl, 2015; Ureta et al., 2016; Whitfield et al., 2015; Wong, 2016
Interaction (n=28, 36.84%)	Chandra et al., 2016; Lipper et al., 2014; Lobo et al., 2017; Long et al., 2016; Maharaj et al., 2014; Manalo et al., 2016; Msalya et al., 2016; Murage, Midega, et al., 2015; Murray et al., 2016; Mwongera et al., 2017; Negra et al., 2014; Neufeldt et al., 2013; Notenbaert et al., 2017; Pulkkinen et al., 2016; Quail et al., 2016; Sain et al., 2017; Salvini, Ligtenberg, et al., 2016; Salvini, van Paassen, et al., 2016; Schaller et al., 2011; Scherr et al., 2012; Scholtz et al., 2014; Shames et al., 2016; Simelton et al., 2015; Singh, 2012; Steenwerth et al., 2014; Stockwell & Bitan, 2012; Wong, 2016; Zougmore et al., 2016
Market structure (n=64, 84.21%)	Aby et al., 2014; Ajayi & Catacutan, 2012; Akter et al., 2016; Alem et al., 2015; Arakelyan & Moran, 2015; Arslan et al., 2015; Beuchelt & Badstue, 2013; Bogdanski, 2012; Böttcher et al., 2012; Branca et al., 2015; Brandt et al., 2017; Campbell et al., 2014; Cano et al., 2016; Cattaneo & Lipper, 2016; Chandra et al., 2016; Descheemaeker et al., 2016; Dougill et al., 2016; Douxchamps et al., 2016; Engel

	<p>& Muller, 2016; Fischer et al., 2016; García de Jalón et al., 2016; Giller et al., 2015; Hammond et al., 2017; Harvey et al., 2014; Jat et al., 2016; Jost et al., 2016; Khapung, 2016; Khatri-Chhetri et al., 2017; Kpadonou et al., 2017; Li et al., 2016; Lipper et al., 2014; Lobo et al., 2017; Long et al., 2016; Maharaj et al., 2014; Makate et al., 2016; Mäkinieimi & Vainio, 2014; Msalya et al., 2016; Murage, Midega, et al., 2015; Murage, Pittchar, et al., 2015; Murray et al., 2016; Mwongera et al., 2017; Notenbaert et al., 2017; Quail et al., 2016; Sain et al., 2017; Salvini, Ligtenberg, et al., 2016; Salvini, van Paassen, et al., 2016; Schaller et al., 2011; Schroth et al., 2016; Shames et al., 2016; Sharma et al., 2016; Shirsath et al., 2017; Simelton et al., 2015; Singh, 2012; Steenwerth et al., 2014; Stockwell & Bitan, 2012; Thierfelder et al., 2016; Tjærnemo & Södahl, 2015; Ureta et al., 2016; Whitfield et al., 2015; Wong, 2016; Zhang et al., 2015; Zougmore, Jalloh, & Tioro, 2014; Zougmore et al., 2016</p>
--	--

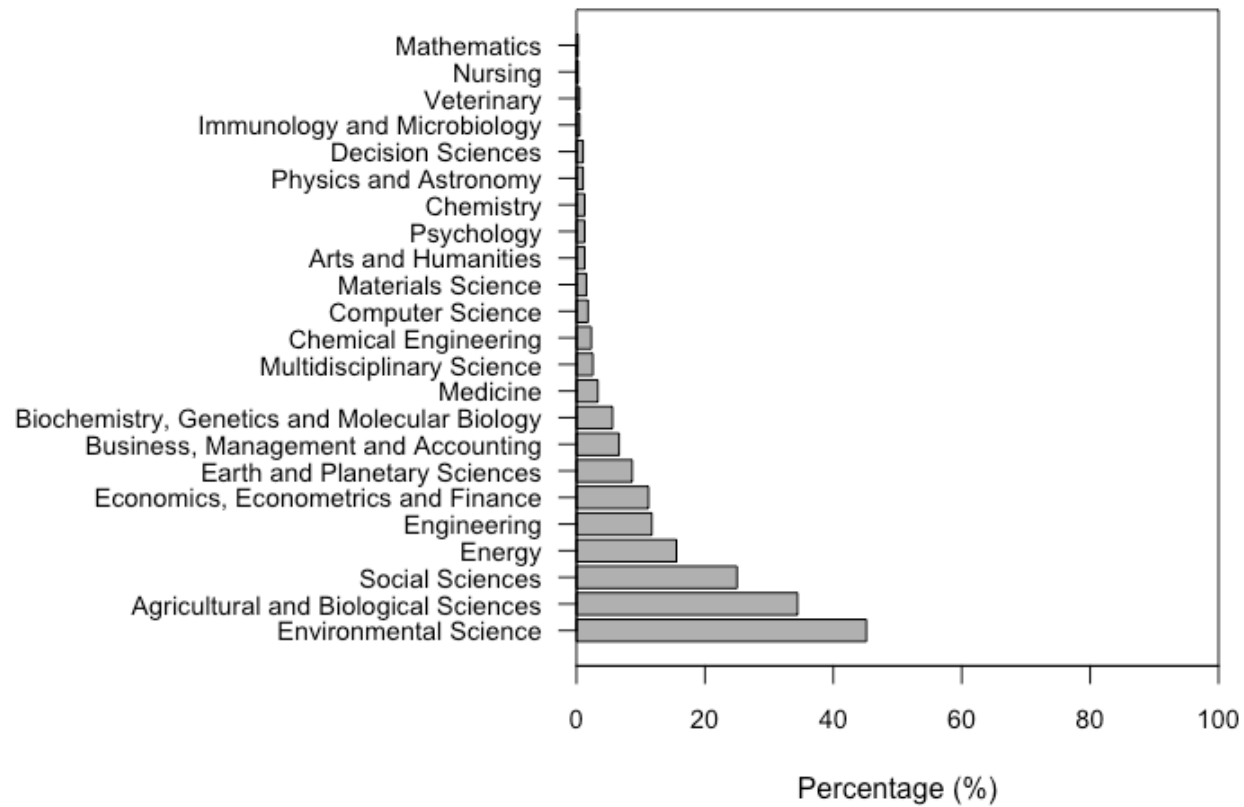


Figure S1. Subject areas covered by the CSA agricultural oriented publications analyzed

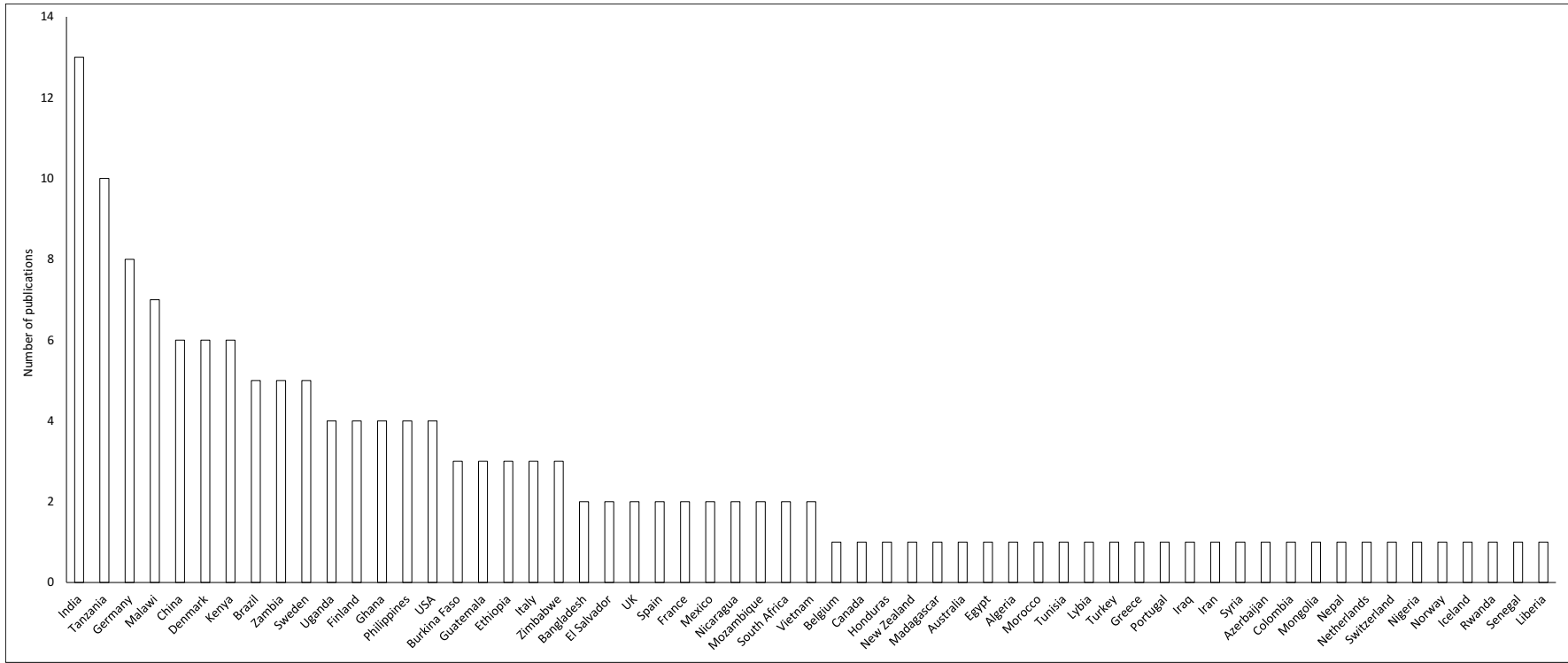


Figure S2. Geographic distribution of the CSA related publications