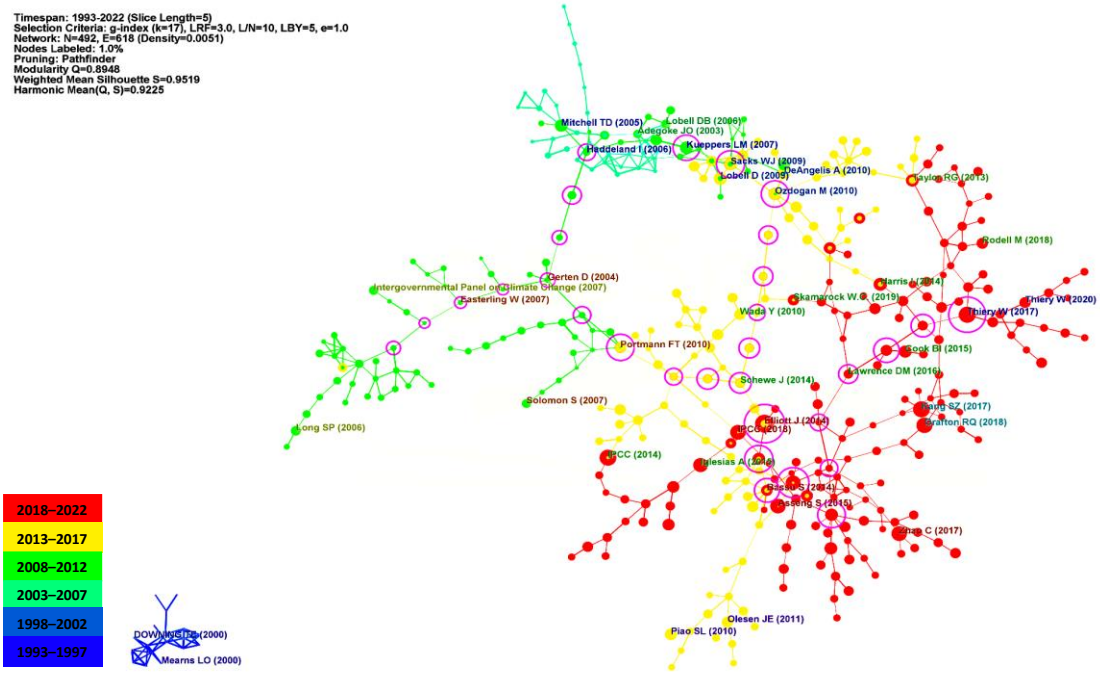

Figure S1. The document co-citation analysis (DCA) network of the CEI field. (The purple circle has high betweenness centrality. The larger the purple circles, the bigger the betweenness centrality. Different color means the DCA first-occurrence year [1–36].

Table S1. The top 25 references with the strongest citation bursts. (Label includes the information of author, year, journal in references; strength is the burst detection strength; begin is the begin burst year of the reference; end is the end burst year of the reference [37–61].

Label (Author, Year, Journal)	Strength	Begin	End
Elliott J, 2014, P NATL ACAD SCI USA	12.42	2014	2022
Mitchell TD, 2005, INT J CLIMATOL	10.2	2005	2012
Lobell D, 2009, J CLIMATE	9.51	2009	2017
Christensen JH, 2007, AR4 CLIMATE CHANGE 2007: THE PHYSICAL SCIENCE BASIS	9.41	2008	2012
Sacks WJ, 2009, CLIM DYNAM	9.01	2009	2017
Kueppers LM, 2007, GEOPHYS RES LETT	8.85	2008	2012
DeAngelis A, 2010, J GEOPHYS RES-ATMOS	8.65	2010	2017
Asseng S, 2015, NAT CLIM CHANGE	8.47	2015	2022
Bonfils C, 2007, P NATL ACAD SCI USA	7.74	2008	2012
Portmann FT, 2010, GLOBAL BIOGEOCHEM CY	7.28	2010	2017
Taylor KE, 2012, B AM METEOROL SOC	6.89	2013	2017
Puma MJ, 2010, J GEOPHYS RES-ATMOS	6.82	2010	2017
Lobell DB, 2006, GEOPHYS RES LETT	6.81	2006	2012
Douglas EM, 2009, GLOBAL PLANET CHANGE	6.49	2009	2017
Lo MH, 2013, GEOPHYS RES LETT	5.67	2013	2017
IPCC, 2007, CONTRIBUTION WORKING	5.52	2008	2012
Bassu S, 2014, GLOBAL CHANGE BIOL	5.27	2014	2022
Kueppers LM, 2012, CLIM DYNAM	5.26	2013	2017
Mueller ND, 2012, NATURE	4.85	2013	2017
Wada Y, 2012, WATER RESOUR RES	4.45	2013	2017
Tubiello FN, 2007, EUR J AGRON	4.41	2008	2012

Kueppers LM, 2008, GLOBAL PLANET CHANGE	4.41	2008	2012
Feddema JJ, 2005, SCIENCE	4.18	2005	2012
Dai AG, 2013, NAT CLIM CHANGE	4.04	2013	2017
Konzmann M, 2013, HYDROLOG SCI J	4.04	2013	2017

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