

Supplementary materials

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Table S1. List of terms used for the query string and textual analysis: Category 1- *Selected Terms* of two thematic groups, A-Standard methods and B- Generic Terms.

Selected Terms - Category 1	
n	A- Standard methods
1	Cumulative Energy Demand
2	PAS 2050
3	Australian Wine Carbon Calculator
4	Environmental Product Declaration
5	Life Cycle Assessment
6	LCA
7	Ecological footprint
8	Water Footprint
9	Product Environmental Footprint
10	IMPACT 2002+
11	CML 2002
12	EDIP 2003
13	TRACI
14	Eco-Indicator
15	EPS 2000
16	Eco Scarcity
17	Carbon footprint
B - Generic	
18	environmental sustainability
19	environmental assessment
20	environmental impact
21	sustainability
22	energy consumption
23	energy efficiency
24	Energy demand
25	eco-efficiency
26	environmental profiles

1 **Table S2** List of terms used for the query string and textual analysis: Category 2- *Food products*, Crop production Terms.

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Crop production					
Agave	Cashewapple	peppers	Lupins	Peas	Sorghum
Almonds	Cassava	Eggs	chicory	Pepper	Soybeans
Anise	Castor oil seed	Fibre crops	Maize	Persimmons	Spinach
Apples	Cauliflowers	Figs	Mangoes	Pigeon peas	Strawberries
Apricots	broccoli	Fonio	Manila fibre	Pineapples	String beans
Areca nuts	Cherries	Garlic	limes	Pistachios	Sugar beet
Artichokes	turnips	Ginger	Melons	Plantains	Sugar cane
Asparagus	Chestnut	Gooseberries	Melonseed	Plums and sloes	Sunflower
Avocados	Chick peas	Grapefruit	Milk	Poppy seed	Sweet potatoes
Bambara beans	Chicory	Grapes	Millet	Potatoes	Tangerines
Bananas	Chillies	Groundnuts,	Mushrooms	Pulses	Taro
Barley	Chillies	Gums	Mustard seed	Pumpkins	Tea
Bastfibres	Cinnamon	Hazelnuts	Nutmeg	Pyrethrum	Tobacco
Beans	Cloves	Hemp tow waste	mace	Quinces	Tomatoes
Beeswax	Cocoa	Honey	Oats	Quinoa	Triticale
Berries nes	Coconuts	Hops	Oil palm	Ramie	Tung nuts
Blueberries	Coffee	Jute	cardamoms	Rapeseed	Vanilla
Brazil nuts	Cotton	Karite nuts	Okra	Raspberries	Leguminous
Broad beans	Cottonseed	Kiwi	Olives	Rice	Vetches
Buckwheat	Cow peas,	Kola nuts	Onions	Rubber	Walnuts
Cabbages	Cranberries	Leeks	Oranges	Rye	Watermelons
Canary seed	Cucumbers	Lemons	Palm kernels	Safflower seed	Wheat
Carobs	Currants	Lentils	Papayas	Sesame seed	Wool
Carrots	Dates	Lettuce	Peaches	Silk-worm cocoons	Yams
Cashew nuts	Eggplants	Linseed	Pears	Sisal	Yautia

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Table S3 List of terms used for the query string and textual analysis: Category 2 - *Food products*, category *Crop processed*, *Live Animals*, *Livestock Primary*, *Livestock Processed*.

Crop processed	Live Animals	Livestock Primary	Livestock Processed
	Asses	Beeswax	Butter
Cotton lint	Beehives	Eggs	Silk raw
Cottonseed	Buffaloes	Fat	Tallow
Margarine	Camelids	Hides	Whey
Molasses	Camels	Honey	Cheese
coconut Oil	Cattle	Offals	butteroil
cottonseed Oil	Chickens	Skins	fresh Cream
groundnut Oil	Ducks		Ghee
linseed Oil	Geese		Lard
maize Oil	Goats		Milk
olive Oil	Horses		Yoghurt
palm Oil	Mules		Meat
palm kernel Oil	Pigeons		red meat
rapeseed Oil	Pigs		kefir
safflower Oil	Rabbits		dairy
sesame Oil	Rodents		
soybean Oil	Sheep		
sunflower Oil	Turkeys		
Palm kernels	geese		
Sugar	guinea fowls		
	fish		

Table S4 List of terms used for the query string and textual analysis : Category 2 - *Food products*, category *Generic*, *Food and beverage*.

Generic	Foods	Beverage
foodwaste	Biscuit	mineral water
mineral water	Pizza	Wine
food	food	lager
vegetable	meat	tea
food waste	ice cream	coffe
fruits	hamburger	sweetened beverages
Seafood	kefir	Fruit juices
nutseed	pasta	milk
whole grain	bread	beer
nut seed	Chocolate	champagne
processed meat	desserts	grappa
sweetened beverages	Cake	brandy
Fruit juices	Cereal grains	Whisky
legumes	breakfast cereals	
nuts	Cereal bars	
seed	Muesli	
meal	Porridge	

ready to eat	Cereal dough
soup	Pasta
salad	breadsticks
grain-based products	Crackers
Fermented fruit	Crisp bread
Candied fruits	doughs
Dried fruit	Bakery products
Canned fruit	pastry

Table S5 List of terms used for textual analysis of abstract.

Impact Category	Production phase	Packaging materials
human health	Supply chain	Ceramics
Cancer	market	Glass
air quality	retail	Metal
climate change	transportation	Paper and Board
Global Warming Potential	logistics	Plastics
GWP100	manufacturing	Printing Inks
Ozone depletion	raw material	Wax
Ozone Depletion Potential	packaging	Wood
ODP	pre-retail	polyethylene
Human toxicity	retail	High Density Polyethylene
Comparative Toxic Unit	post retail	polyethylene terephthalate
Particulate matter	food service	polyvinyl chloride
Ionising radiation	storing	polystyrene
Photochemical ozone formation	restaurant	poly carbonate
Tropospheric ozone concentration increase	local	Cartonboard
Acidification	regional	recycled paper
Eutrophication	global	virgin fibers
Ecotoxicity	consumer	paperboard box
Land use	post harvest	Corrugated board
Soil quality index	storage	aluminium
Biotic production	agricultural production	
Erosion resistance	consumption	
Mechanical filtration	food processing	
Groundwater replenishment	refrigerated transport	
Water use	refrigerated storage	
Resource use	End-of-life	
methane	Truck transport	
carbon dioxide	Van transport	
carbon monoxide	Consumer transport	
Pesticides	plane	
Fertilisers	train	
manure	local supply chain	
Heavy metal	intracontinental supply chain	
	circular economy	
	transoceanic transport	

Table S6

Scientific production in EAFP for the top 5 nations ranked by the number of documents published related to their population (<https://www.worldometers.info/world-population>) and governmental investment in R&D (<https://www.rdworldonline.com/2021-global-rd-funding-forecast-released>).

Country	Population (Mil.)	R&D Bil. € (2020)	n. pub.	n.pub/Bil.US\$	pop/n.pub
CHINA	1.444	532,8	547	1,027	0,4
USA	333	596,6	465	0,779	1,4
ITALY	60	31,4	464	14,768	7,7
UK	68	53	328	6,169	4,8
SPAIN	47	24	283	11,961	6,0