

Supplementary Material

Supplementary Table S.1. Search strategies used

Id	TIA	Acronym	Search query
1	Circular economy	CE	TS="*circular *econom*"
2	Cleaner production	CP	TS="cleaner production*"
3	Corporate citizenship	CC	TS="corporate* citizenship*"
4	Corporate social responsibility	CSR	TS="corporate* social* responsib*" OR TS="corporate* reputation*" OR TS="corporate* social performance*" OR TS="corporate* responsabilit*"
5	Corporate sustainability	CS	TS="corporate* sustainab*"
6	Design for the Environment	DESIGN	TS="design* for the environment*" OR TS="eco-design" OR TS="ecodesign" OR TS="eco design"
7	Eco-efficiency	ECO	TS="eco-efficien*" OR TS="ecoefficien*" OR TS="eco efficien*"
8	Ecolabelling	ECOL	TS="ecolabel*" OR TS="eco-label*" OR TS="eco label*"
9	Environmental management systems	EMS	TS="environ* manage* syste*"
10	Factor X	FX	(TS="Factor 4" OR TS="Factor 5" OR TS="Factor 10" OR TS="Factor 20" OR TS="Factor X") AND TS="sustainability"
11	Green chemistry	GCHEM	TS="Green chemistry" OR TS="sustainab* chemistry"
12	Green marketing	GMARK	TS="Green marketing" OR TS="sustainab* marketing"
13	Industrial ecology	IE	TS="Industrial ecology" OR TS="industrial symbiosis" OR TS="industrial ecosystem*"
14	Integrated management system	IMS	TS="Integrated management* system*"
15	Life cycle assessment	LCA	TS="Life cycle assessment*" OR TS="life-cycle assessment" OR TS="life cycle sustainability analys*" OR TS="life cycle analysis" OR TS=" life cycle management"
16	Sustainability reporting	SR	TS="Sustainability reporting" OR TS="ISO140*" OR TS="AA1000" OR TS="SA8000" OR TS="Global Reporting Initiative" OR TS="Environmental Management System*" OR TS="Sustainability assessment" OR TS="integrated reporting"
17	Sustainable supply chains	SSCHAIN	TS="Sustainable supply chain*" OR (TS="sustainable development" and TS="supply chain") OR TS="green supply chain managemen*"
18	Socially/sustainable responsible investment	SRI	TS="sustainable responsible invest*" OR TS="socially responsible invest*"
19	The Natural Step	NAT	TS="natural step" AND TS="sustainab*"

20	The triple bottom line	TBL	TS="triple bottom line"
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Supplementary Table S.2. Subtopics identified for each TIAs

TIA	Topic	Silhouette values	Sustainability	Docs
TBL	decision-support tool	0.76	social	112
TBL	configuring management control system	0.865	social	83
TBL	ecological consideration	0.81	environment	76
TBL	sustainable supply chain management	0.815	economic	89
TBL	sustainable supply chain management	0.788	environment	109
TBL	assessing non-financial report	0.803	economic	74
TBL	life cycle sustainability assessment	0.893	environment	14
NS	fine balance	0.885	economic	10
NS	applied tool	0.997	economic	4
NS	informing leed	0.989	environment	6
NS	new trend	0.958	environment	4
NS	informing leed	0.987	environment	1
NS	informing leed	0.995	environment	1
SRI	stock market	0.744	economic	128
SRI	financial performance	0.696	economic	89
SRI	ethical investment processes	0.945	social	64
SRI	profit-seeking social investor	0.777	economic	68
SRI	assessing mutual fund	0.796	economic	53
SRI	sustainable development	0.784	environment	70
SRI	british sri stock	0.854	economic	30
CP	aqueous solution	0.822	environment	273
CP	technological innovation	0.793	economic	273
CP	systematic review	0.781	economic	210
CP	taking stock	0.822	economic	110
CP	macrophyte-dominated eutrophic lake	0.73	environment	112
CP	sustainable application	0.77	environment	114
CP	environmental management accounting	0.837	environment	39
CP	programmatic review	0.96	environment	10
CP	organisational change agent	0.971	environment	8
CP	cleaner production strategies	0.957	environment	8
CP	wood-plastic composite	0.989	environment	2
SR	environmental management system	0.891	environment	340
SR	life cycle sustainability assessment	0.816	environment	554
SR	sustainability reporting	0.834	economic	392
SR	sustainability reporting	0.807	social	405
SR	integrated reporting	0.89	social	257
SR	sustainability reporting	0.827	environment	287
SR	circular economy	0.87	social	169
SR	social life cycle assessment	0.941	social	109
SR	environmental motivation	0.946	environment	33
SR	catchment management	0.949	environment	12
SR	site-specific antecedent	0.973	environment	10
CS	environmental disclosure	0.803	environment	200
CS	comparative analysis	0.674	economic	229
CS	empirical analysis	0.769	economic	200
CS	managing tension	0.827	social	219
CS	corporate sustainability rating	0.78	environment	184
CS	dynamic capabilities	0.689	economic	148
CS	corporate sustainability measurement	0.859	environment	119
CS	environmental assessment	0.901	environment	58
CS	corporate governance	0.884	economic	86

DESIGN	sustainable product development	0.725	environment	116
DESIGN	circular economy	0.687	environment	114
DESIGN	ecodesign method	0.775	environment	83
DESIGN	life cycle	0.705	environment	120
DESIGN	green supply chain management practice	0.659	environment	106
DESIGN	new strategies	0.859	economic	56
DESIGN	life cycle assessment	0.92	economic	59
DESIGN	modular social playground	0.899	social	21
DESIGN	sustainable industrial system	0.845	economic	16
DESIGN	product-based environmental management system	0.988	environment	8
DESIGN	successful multinational ecodesign project	0.942	environment	25
SSCHAIN	competitive advantage	0.935	economic	463
SSCHAIN	sustainable procurement	0.84	environment	302
SSCHAIN	green innovation	0.657	environment	329
SSCHAIN	prospective theme	0.819	economic	298
SSCHAIN	sustainable supplier selection	0.868	economic	247
SSCHAIN	making connection	0.891	environment	93
SSCHAIN	circular economy	0.845	environment	185
SSCHAIN	theoretic approach	0.958	economic	122
EMS	regulatory complexity	0.806	economic	109
EMS	underlying mechanism	0.758	economic	162
EMS	policy process	0.85	social	113
EMS	catchment management	0.858	environment	110
EMS	green supply chain management	0.84	economic	115
EMS	corporate decision	0.805	environment	97
EMS	environment standard	0.866	environment	40
EMS	heterogeneous effect	0.779	environment	81
EMS	site-specific antecedent	0.967	economic	13

IMS	management systems integration	0.66	social	25
IMS	corporate sustainability	0.854	economic	26
IMS	integrated management systems research	0.833	economic	27
IMS	small service businesses	0.926	economic	20
IMS	biological control agent	0.893	environment	13
IMS	woody vegetation cover account	0.906	environment	12
IMS	hospitality sector	0.89	social	13
IMS	multiple certifications leverage firm performance	0.917	economic	9
IMS	quality management systems audit	1	economic	6
CSR	service quality	0.871	social	1209
CSR	stakeholder theory	0.865	social	929
CSR	female director	0.815	social	997
CSR	developing countries	0.75	social	861
CSR	triple bottom line	0.792	environment	1118
CSR	firm value	0.874	economic	951
CSR	affective commitment	0.832	social	865
CSR	financial performance	0.843	economic	867
CSR	global reporting initiative	0.923	social	253
CSR	talk-action inconsistency	0.959	social	120
CSR	corporate social performance-model	0.996	economic	10
CSR	organizational mindfulness	0.995	social	3
CC	multinational enterprises	0.826	economic	43
CC	exploratory analysis	0.764	social	30
CC	team efficacy	0.85	social	19
CC	corporate political activity	0.838	social	43
CC	employee reaction	0.757	economic	19
CC	collective action	0.812	social	31
CC	affective commitment	0.883	social	20
CC	danish energy firm	0.9	economic	14

CC	expectancy theories	0.921	social	7
CC	social responsibility policies	0.913	social	5
CC	introduction	1	social	7
GMAR K	green marketing strategies	0.75	environment	41
GMAR K	special section	0.717	social	41
GMAR K	conceptual framework	0.624	environment	27
GMAR K	environmental issue	0.585	environment	42
GMAR K	friendly packaging	0.791	social	30
GMAR K	hong kong hotel managers perspective	0.948	social	24
CS	environmental disclosure	0.803	environment	200
CS	comparative analysis	0.674	social	229
CS	empirical analysis	0.769	environment	200
CS	managing tension	0.827	social	219
CS	corporate sustainability rating	0.78	environment	184
CS	dynamic capabilities	0.689	economic	148
CS	corporate sustainability measurement	0.859	economic	119
CS	environmental assessment	0.901	environment	58
CS	corporate governance	0.884	social	86
FACTOR	alternative sustainability indicator	1	economic	4
CE	eco-industrial park	0.954	environment	100
CE	circular supply chain	0.839	economic	302
CE	heat value	0.916	environment	303
CE	urban system	0.916	social	292
CE	circular economy indicator	0.769	environment	250
CE	recycling system	0.79	environment	150
CE	circular bioeconomy	0.874	environment	266
CE	circular business model	0.829	economic	157
CE	ict reuse	0.977	economic	25
Gchem	silver nanoparticle	0.802	environment	928
Gchem	supercritical fluid	0.792	environment	626

Gchem	efficient catalyst	0.755	environment	845
Gchem	next generation	0.783	environment	452
Gchem	deep eutectic solvent	0.743	environment	572
Gchem	green synthesis	0.749	environment	672
Gchem	active pharmaceutical ingredient	0.83	environment	590
Gchem	aqueous media	0.779	environment	389
Gchem	aromatic polyamide	0.878	environment	99
Gchem	photocatalytic degradation	0.946	environment	165
LCA	life cycle assessment framework	0.82	environment	1862
LCA	social life cycle assessment	0.869	social	845
LCA	ethanol production	0.851	environment	1312
LCA	carbon emission	0.853	environment	1505
LCA	carbon footprint	0.827	environment	1466
LCA	circular economy	0.852	social	1466
LCA	electricity generation	0.81	environment	1446
LCA	biodiesel production	0.931	environment	786
LCA	engineered nanomaterial	0.792	environment	1104
LCA	principal component analysis	0.952	economic	234
LCA	circular economy	0.923	economic	396
LCA	electric vehicle	0.854	environment	321
LCA	industrial ecosystem	0.997	economic	6
ECOL	developing countries	0.665	social	143
ECOL	sustainable tourism theory	0.79	social	108
ECOL	carbon label	0.647	environment	110
ECOL	sustainable fishery	0.873	environment	52
ECOL	price premium	0.847	economic	70
ECOL	consumers preference	0.86	economic	62
ECOL	new environmental policy instrument	0.959	environment	13
ECOL	agrobiodiversity management instrument	1	environment	6
ECO	spatial correlation	0.912	environment	165

ECO	western australia	0.97	economic	49
ECO	chinese manufacturing industries	0.868	economic	128
ECO	renewable energy	0.819	environment	81
ECO	operational efficiency	0.939	economic	68
ECO	uk region	0.854	economic	75
ECO	economic growth	0.816	economic	92
ECO	measuring corporate contribution	0.985	economic	13
ECO	developing indicator	0.855	social	21
IE	life cycle greenhouse gas	0.884	environment	248
IE	industrial symbiosis development	0.889	economic	203
IE	energy flow model	0.91	economic	54
IE	circular economy	0.886	environment	225
IE	industrial symbiosis	0.812	economic	232
IE	systematic literature review	0.895	social	180
IE	political-industrial ecology	0.835	environment	105
IE	industrial ecology	0.954	economic	14
IE	use framework	0.979	economic	3
IE	philosophical introduction	1	economic	8

Supplementary Table S.3. Classification approach adopted in this study

TIA	Acronym	Glavič & Lukman, 2007 classification	Classification in this study
Circular Economy	CE		Tools
Cleaner Production	CP	Approach	Approaches
Corporate citizenship	CC		Tools
Corporate social responsibility	CSR		Tools
Corporate sustainability	CS		Tools
Design for the Environment	DESIGN	Approach	Tools
Eco-efficiency	ECO	Principle	Initiative
Ecolabelling	ECOL		Approaches
Environmental management systems	EMS	Sub-system	Tools
Factor X	FX	Principles	Initiative
Green chemistry	GCHEM	Approach	Tools
Green marketing	GMARK		Tools
Industrial ecology	IE	Sub-system	Tools
Integrated management system	IMS		Tools
Life cycle assessment	LCA	Approaches	Approaches
Sustainability reporting	SR	Principles	Tools
Sustainable supply chain	SSCHAIN	Approaches	Approaches
Sustainable responsible investment	SRI		Tools
Natural Step	NAT		Tools
Triple bottom line	TBL		Initiative

*Note: Glavič & Lukman 2007, divides TIAs into sustainable systems, sub-systems, approaches and principles. While GCHEM is considered as an approach for Glavič & Lukman, 2007, in this study it has been redefined as a tool.