

## Supplementary material A

Words in title	TP	1990-2019	1990-1999	2000-2009	2010-2019
		Rank (%)	Rank (%)	Rank (%)	Rank (%)
mangrove	6,091	1 (47)	1 (47)	1 (48)	1 (47)
mangroves	1129	2 (8.7)	2 (9.4)	2 (9.0)	2 (8.4)
species	977	3 (7.5)	3 (6.9)	3 (8.1)	4 (7.4)
coastal	922	4 (7.1)	5 (5.4)	4 (6.6)	3 (7.7)
forest	651	5 (5.0)	7 (4.8)	6 (4.8)	7 (5.2)
tropical	611	6 (4.7)	3 (6.9)	16 (3.9)	11 (4.6)
coast	606	7 (4.7)	10 (3.8)	7 (4.7)	10 (4.8)
sediments	603	8 (4.7)	11 (3.6)	10 (4.4)	8 (5.0)
india	589	9 (4.5)	15 (3.0)	11 (4.3)	9 (5.0)
sp	573	10 (4.4)	120 (1.0)	29 (2.8)	5 (5.8)
brazil	539	11 (4.2)	28 (2.3)	5 (4.9)	13 (4.2)
estuary	535	12 (4.1)	11 (3.6)	9 (4.4)	15 (4.1)
marine	528	13 (4.1)	6 (4.9)	14 (4.0)	16 (3.9)
distribution	524	14 (4.0)	8 (4.7)	12 (4.2)	17 (3.9)
carbon	522	15 (4.0)	60 (1.6)	48 (2.0)	6 (5.4)
ecosystem	466	16 (3.6)	26 (2.3)	25 (3.0)	14 (4.1)
forests	439	17 (3.4)	17 (2.9)	18 (3.3)	20 (3.5)
sediment	438	18 (3.4)	39 (2.0)	18 (3.3)	19 (3.7)
fish	436	19 (3.4)	19 (2.7)	12 (4.2)	22 (3.2)
bay	431	20 (3.3)	13 (3.5)	8 (4.7)	31 (2.7)
China	427	21 (3.3)	190 (0.69)	41 (2.2)	12 (4.3)
crab	395	22 (3.0)	28 (2.3)	15 (4.0)	30 (2.8)
Avicennia	391	23 (3.0)	41 (1.9)	20 (3.3)	23 (3.1)

fungus	382	24 (2.9)	444 (0.31)	46 (2.1)	18 (3.8)
structure	382	24 (2.9)	20 (2.6)	27 (3.0)	24 (3.0)

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*TP*: total number of articles; N/A: not available.

## Supplementary material B

Words in Abstract	TP	1990-2019	1990-1999	2000-2009	2010-2019
		Rank (%)	Rank (%)	Rank (%)	Rank (%)
mangrove	10,302	1 (81)	1 (80)	1 (81)	1 (81)
species	5,448	2 (43)	2 (47)	2 (44)	2 (41)
mangroves	4,253	3 (33)	3 (31)	3 (32)	3 (35)
coastal	2,889	4 (23)	8 (17)	6 (20)	4 (25)
area	2,623	5 (21)	5 (19)	5 (22)	5 (21)
water	2,545	6 (20)	4 (25)	4 (22)	7 (18)
significant	2,295	7 (18)	10 (16)	7 (18)	6 (18)
forest	2,273	8 (18)	9 (17)	9 (18)	8 (18)
areas	2,237	9 (18)	6 (18)	8 (18)	9 (17)
sediment	2,002	10 (16)	24 (13)	11 (15)	10 (17)
forests	1,864	11 (15)	21 (13)	19 (13)	12 (16)
significantly	1,822	12 (14)	12 (15)	12 (14)	18 (14)
distribution	1,816	13 (14)	13 (15)	16 (13)	15 (14)
sites	1,806	14 (14)	11 (15)	10 (15)	22 (14)
marine	1,788	15 (14)	23 (13)	14 (14)	14 (14)
conditions	1,768	16 (14)	14 (14)	13 (14)	19 (14)
ecosystem	1,702	17 (13)	133 (5.8)	53 (9.2)	11 (17)
changes	1,691	18 (13)	33 (11)	20 (13)	19 (14)
environmental	1,639	19 (13)	55 (9.0)	33 (11)	16 (14)
sediments	1,632	20 (13)	17 (14)	25 (12)	23 (13)
habitats	1,617	21 (13)	19 (13)	15 (13)	27 (12)
natural	1,592	22 (12)	49 (9.3)	29 (11)	21 (14)
ecosystems	1,576	23 (12)	81 (7.7)	75 (8.2)	13 (15)

coast	1,575	24 (12)	26 (12)	18 (13)	29 (12)
habitat	1,572	25 (12)	30 (11)	17 (13)	28 (12)

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## Supplementary material C

KeyWords Plus	TP	1990-2019	1990-1999	2000-2009	2010-2019
		Rank (%)	Rank (%)	Rank (%)	Rank (%)
growth	704	1 (6.1)	1 (9.5)	1 (6.7)	5 (5.3)
forests	693	2 (6.0)	22 (2.5)	6 (3.9)	1 (7.3)
dynamics	653	3 (5.6)	10 (3.4)	3 (4.6)	2 (6.3)
sediments	539	4 (4.6)	6 (4.1)	2 (4.7)	6 (4.7)
diversity	529	5 (4.6)	52 (1.4)	8 (3.5)	3 (5.5)
patterns	500	6 (4.3)	16 (2.8)	4 (4.5)	8 (4.5)
ecosystems	481	7 (4.1)	58 (1.3)	27 (2.2)	4 (5.3)
forest	447	8 (3.9)	5 (4.4)	5 (4.0)	12 (3.7)
organic-matter	444	9 (3.8)	35 (1.9)	10 (3.5)	10 (4.3)
management	424	10 (3.7)	209 (0.45)	18 (2.8)	9 (4.5)
bay	402	11 (3.5)	16 (2.8)	10 (3.5)	13 (3.6)
carbon	383	12 (3.3)	21 (2.6)	12 (3.4)	14 (3.4)
climate-change	378	13 (3.3)	249 (0.36)	142 (0.7)	7 (4.7)
estuary	374	14 (3.2)	7 (4.0)	7 (3.5)	17 (3.0)
conservation	367	15 (3.2)	74 (1.1)	30 (2.1)	11 (3.9)
<i>Avicennia marina</i>	352	16 (3.0)	3 (4.8)	14 (3.0)	20 (2.8)
nitrogen	352	16 (3.0)	13 (3.3)	14 (3.0)	17 (3.0)
salinity	343	18 (3.0)	4 (4.5)	16 (3.0)	22 (2.7)
water	340	19 (2.9)	15 (3.0)	23 (2.5)	16 (3.1)
ecology	339	20 (2.9)	8 (3.8)	8 (3.5)	24 (2.6)
vegetation	330	21 (2.8)	48 (1.4)	25 (2.4)	15 (3.2)
evolution	314	22 (2.7)	35 (1.9)	21 (2.6)	19 (2.9)
communities	301	23 (2.6)	19 (2.7)	16 (3.0)	29 (2.4)

Australia	279	24 (2.4)	2 (7.6)	13 (3.2)	69 (1.3)
biomass	272	25 (2.3)	25 (2.4)	39 (1.8)	25 (2.5)

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