Table S1: Results of the systematic literature review (with detailed data coding)

Authorship	Year	Title	Article origin (IJ/SL)	Article type	Study location	Climatic Zone (W/D/ IM)	Tidal range (E/F)	Flora	Fauna
Abeysinghe et al, 1999	1999	Genetic and geographic variation of the mangrove tree Brugueira in SL	IJ	Peer - reviewed article	All island	W|D|IM	E and F	√	
Amarasignhe and Perera, 2017	2017	Ecological biogeography of mangroves in SL	SL	Peer - reviewed article	All island	W|D|IM	E and F	√	
Amarasignhe and Perera, 2017	2017	Historical biogeography of SL mangroves	SL	Peer - reviewed article	All island	W|D|IM	E and F	√	
Amarasinghe and Balasubramanium, 1992	1992	Net primary productivity of two mangrove forests stands on the northwestern coast of SL	IJ	Peer - reviewed article	Dutch bay	D	E and F	√	

Amarasinghe and Balasubramanium, 1992	1992	Structural properties of two types of mangrove stands on the northwestern coast of Sri Lanka	IJ	Peer - reviewed article	Puttalam lagoon and Dutch Bay	D	E	√
Amarasinghe et al, 2002	2002	Investigation of the Negombo brush park estuary with an emphasis son community-based management	IJ	Peer - reviewed article	Negombo	W	E	√
Arulnayagam A, 2020	2020	Floral distribution, abundance and diversity of mangroves in Sangupiddy, Kilinochchi	IJ	Peer - reviewed article	Kilinochchi	D	E	√

Bambaradneiya et al, 2002	2002	Biodiversity of Maduganga mangrove wetland	IJ	Peer - reviewed article	Maduganga	W	E	√	
CEA. 2015	2015	Wetlands of Sri Lanka	SL	Gray literature	All island	W|D|IM	E and F	√	
Costa and Wijerathne 1993	1993	Utilization of mangrove species in brush park construction and their effects on Negombo estuary fishery	IJ	Peer - reviewed article	Negombo	W	E	√	
Dahanayake and Wijeyratne 2006	2006	Diversity of macrobenthic community in Negombo estuary, SL with special reference to environmental conditions	SL	Peer - reviewed article	Negombo	W	E		√

Dahanayake et al. 2015	2015	Potential of the conservation oriented mangrove based ecotourism: A case study in Kadolkale mangrove reserve, Negombo	SL	Peer - reviewed article	Negombo	W	E	√
Dahbough-Guebas et al., 2001	2001	Recent changes in land use in the Pambala - Chilaw lagoon complex: conservation of mangroves vs development of shrimp farming	IJ	Peer - reviewed article	Chilaw	D	E	√
Dahdouh-Guebas et al 2000	2000	Four decade vegetation dynamics in Sri Lankan mangroves	IJ	Peer - reviewed article	Galle	D	E	√

		detected from sequential aerial photography: A case study in Galle							
De Silve and De Silva, 1998	1998	Status , diversity and conservation of the mangrove forests of Sri Lanka	IJ	Peer - reviewed article	Mannar to Batticaloa	W|D|IM	E/F/M	√	√
Dissanayake and Chnadrasekara, 2014	2014	Effects of mangrove zonation and the physiochemical parameter of soil on the distribution of macrbenthic fauna in Kadolkale	IJ	Peer - reviewed article	Negombo	W	E	√	√
FAO	2016	Global forest resources -Sri Lanka	SL	Gray literature	All island	W|D|IM	E/F/M	√	

Fowzul Ameer, 2016	2016	Mangroves vanishing form Eastern provinces of Sri Lanka	SL	Peer - reviewed article	Ampara, Batticaloa	D	E and F	√
Gajaba and Ranawana, 2015	2015	Panama lagoon: A unique mangrove ecosystem in the east coast of Sri Lanka	SL	Peer - reviewed article	Ampara	D	E	√
Gunarathne et al,2018	2018	Diversity and Ecosystem health of Inland mangrove forest in Garanduwa Lagoon, Southern Province	SL	Peer - reviewed article	Garanduwa lagoon	D	E	√
Gunathilaka, 2017	2017	Diversity of Mangrove species in Kala Oya estuary	IJ	Peer - reviewed article	Kala Oya	D	E	√

Gunatilake, 2016	2016	First substantial record of *Cerriops decandra* (Rhizophoraceae) in Sri Lanka	IJ	Peer - reviewed article	Pulmoddai	D	E	√	
Gunatilake, et al, 2017	2017	South-west Sri Lanka: A floristic refuge in South Asia	SL	Peer - reviewed article	South western area	W	E and F	√	
Iftekhar, 2008	2008	An overview of mangrove management strategies in three south Asian countries: Sri Lanka	IJ	Peer - reviewed article	All island	W|D|IM	E and F	√	
IUCN	2016	Sri Lanka information on mangroves in Sri Lanka	SL	Gray literature	All island	W|D|IM	E and F	√	√
Jayakody et al, 2008	2008	Vegetation structure and gross primary	SL	Peer - reviewed article	Negombo	W	E	√	

		productivity of mangroves at Kadolkale								
Jayasundara et al, 1999	1999	Mangrove vegetation structure and the abundance of shrimps on Chilaw lagoon	SL	Peer - reviewed article	Chilaw	D	E		√	
Jayasurya, 1991	1991	The distribution and species composition of the existing mangrove vegetation around Chilaw lagoon	SL	Peer - reviewed article	Chilaw	D	E	√		
Jayathilake, et al 2018	2018	Diversity of fauna and flora in Rekawa Lagoon, Southern coast of Sri Lanka	SL	Peer - reviewed article	Rekawa	IM	E and F	√	√	

Jayatissa 2012	2012	Present status of mangroves in Sri Lanka	SL	Peer - reviewed article	All island	W|D|IM	E and F	√
Jayatissa and Dahbouh-Guebas, 2009	2009	A bibliometric review on pre and post tsunami assumptions and facts about mangroves and other coastal vegetation as protective buffers.	SL	Peer - reviewed article	All island	W|D|IM	E and F	√
Jayatissa et al, 2002	2002	Changes in vegetation cover and socio-economic transitions in a coastal lagoon in Kalametiya	IJ	Peer - reviewed article	Kalametiya	W	E	√
Jayatissa et al, 2008	2008	Interspecific variations in response of	IJ	Peer - reviewed article	Rekawa	IM	E	√

		mangrove seedlings to two contrasting salinities							
Jayatissa, et al, 2002	2001	A review of the floral composition and distribution of mangroves in Sri Lanka	IJ	Peer - reviewed article	Puttalam - Hambantota	W|D|IM	E and F	√	
Jonsson and Hedman 2018	2018	Carbon stock assessment of mangrove ecosystems in Batticaloa lagoon, Sri Lanka with different degrees of human disturbances.	IJ	Peer - reviewed article	Batticaloa	D	E	√	
Karunathilake, 2003	2003	Status of mangroves in Sri Lanka	IJ	Peer - reviewed article	All island	W|D|IM	E and F	√	√

Katrin et al, 2006	2006	Categorization of land-cover and land-use adjacent to a Sri Lanka mangrove lagoon	SL	Peer - reviewed article	All island	W|D|IM	E/F/M	√	
Katupotha, 2016	2016	Mangroves in lagoons ecosystems: A neglected habitat in Sri Lanka	SL	Peer - reviewed article	All island	W|D|IM	E/F/M	√	√
Kodikara et al, 2014	2014	Have mangrove restoration projects worked?	IJ	Peer - reviewed article	All island	W|D|IM	E/F/M	√	
Kumara et al, 2015	2015	The impacts of shrimp farming on land-use and carbon storage around Puttalam lagoon, Sri Lanka	IJ	Peer - reviewed article	Puttalam	D	E	√	√
Kumara 2011 (PhD thesis)	2011	The impacts of tree density on the physical and biological	IJ	PhD thesis	All island	W|D|IM	E/F/M	√	

		characteristics of planted mangrove stands in SL						
Madarasinghe et al, 2015	2015	*Acacia auriculiformis*, a threat to mangrove forest in Rekawa lagoon	SL	Peer - reviewed article	Rekawa	IM	E	√
Madhushanka and Kumara, 2018	2018	Distribution patterns of mangroves saplings among different light habitats , Rekawa	SL	Peer - reviewed article	Rekawa	IM	E	√
Mathiventhan and Jayasingam, 2010	2010	Impacts of disturbances on floristic composition of selected mangrove	SL	Peer - reviewed article	Batticaloa	D	E	√

		ecosystems in Batticaloa							
Mathiventhan and Jayasingam, 2012	2012	Impacts of natural and human disturbances on the density of tree species in selected mangrove ecosystems in Batticaloa	SL	Peer - reviewed article	Batticaloa	D	W	√	
Mathiventhan and Jayasingam, 2014	2014	Impact of flood on Rhizophora plantation in Batticaloa, SL	IJ	Peer - reviewed article	Batticaloa	D	E	√	
NARA	2008	Fisheries year book	SL	Gray literature	All island	W|D|IM	E/F/M		√
Nigamuni and Subasinghe, 2015	2015	Floral diversity of six mangrove forests along the	SL	Peer - reviewed article	Northwest coastline: from Gampaha to Puttalam	W|D|IM	E	√	

		northwestern coastline of wet, IM and dry zones						
Nijamir 2017	2017	The environmental challenges of declining mangroves -an analytical survey in Puttalam District in SL	IJ	Peer - reviewed article	Puttalam	D	E	√
Perera and Amarasinghe, 2014	2014	Effect of vegetation structure on carbon assimilation capacity of mangrove ecosystems in the east coast	IJ	Peer - reviewed article	Eastern province	D	E and F	√
Perera and Amarasinghe, 2017	2017	Partitioning of system total carbon pool of	IJ	Peer - reviewed article	Kala oya	D	E	√

		Kala Oya mangrove ecosystem in SL						
Perera and Kotagama, 2012	2012	Bottlenecks in conserving mangroves associated with the Puttalam Estuary,	SL	Peer - reviewed article	Puttalam	D	E	√
Perera et al, 2013	2013	Vegetation structure and species distribution of mangroves along a soil salinity gradient in a micro tidal estuary on the north-western coast of Sri Lanka	IJ	Peer - reviewed article	Kala oya	D	E	√
Phillips et al 2017	2017	Impacts of mangrove density on	IJ	Peer - reviewed article	Puttalam	D	E	√

		surface sediment accretion, belowground mass and biogeochemistry in Puttalam lagoon							
Pinto 1981	1982	Distribution and zonation of mangroves in the northern part of the Negombo lagoon	SL	Peer - reviewed article	Negombo	W	E	√	
Pinto and Punchihewa 1996	1996	Utilization of mangroves and seagrasses by fisheries in the Negombo estuary	IJ	Peer - reviewed article	Negombo	W	E	√	√
Pinto and Wignarajah, 1980	1980	Some ecological aspects of the edible oyster in association with	IJ	Peer - reviewed article	Negombo	W	E	√	√

		mangroves in Negombo							
Pinto, 1986	1986	Mangroves of Sri Lanka	SL	Peer - reviewed article	All island		D/W/IM	E	√
Prakash et al, 2017	2017	Mangrove diversity in Muthurajawela and Negombo lagoon wetland complex	SL	Peer - reviewed article	Negombo		W	E	√
Prasanna et al, 2019	2019	Species composition, abundance and diversity of mangroves in selected sites in Ampara District in the east coast	SL	Peer - reviewed article	Ampara		D	E	√
Priyadarshini et al, 2008	2008	Diversity of mangrove crabs	SL	Peer - reviewed article	Negombo		W	E	√	√

		in Kadolkale Negombo							
Ranwanna, 2017	2017	Mangroves of Sri Lanka	SL	Peer - reviewed article	All island	W|D|IM	E and F	√	
Sarathchandra et al, 2018	2018	Significance of mangrove biodiversity conservation in Fishery production and living conditions of coastal communities in SL	IJ	Peer - reviewed article	All island	W|D|IM	E and F	√	√
Satyanarayana et al 2012	2012	Are the mangroves in the Galle-Unawatuna area at risk?	IJ	Peer - reviewed article	Galle-Unawatuna	W	E	√	

Satyanarayana et al, 2015	2015	Fate of the predictions in Galle-Unawatuna Mangroves: A validation after 10 years using satellite	IJ	Peer - reviewed article	All island		W|D|IM	E and F	√
Satyanarayana et al, 2017	2017	Island-wide coastal vulnerability assessment of Sri Lanka	IJ	Peer - reviewed article	All island		W|D|IM	E and F	√
Thilakaratne et al, 2018	2018	Role of anthropogenic canopy gaps on natural regeneration pattern of monospecific Ceriops Tagal in Rekawa lagoon	IJ	Peer - reviewed article	Rekawa		IM	E	√

Victor and Gunaratne, 2015	2015	Economic valuation of mangroves in Mannar region	SL	Peer - reviewed article	Mannar	D	E	√
Weragodatenna and Gunaratne	2015	Change detection of mangrove coverage in Puttalam lagoon using remote sensing techniques	SL	Peer - reviewed article	Puttalam lagoon	D	E	√
Wickramasinghe, 2017	2017	Re-greening the coast: Mangrove conservation and restoration in Sri Lanka	IJ	Peer - reviewed article	All island	W|D|IM	E and F	√

Journal type: IJ- International journal; SL- Local journal (Sri Lanka)

Climatic zone: W-wet zone; IM-Intermediate zone; D-Dry zone

Tidal range: E-estuarine; F-Fringe