

SUPPLEMENTARY MATERIAL

Table S1. List of articles included.

Title	Year	Journal
<i>Very high HDI countries (62 articles)</i>		
Residents and urban green spaces: the case of Bari	2006	Urban Forestry & Urban Greening
The relation between perceived sensory dimensions of urban green space and stress restoration	2010	Landscape and Urban Planning
Peoples' use of and concerns about green space networks: a case study of Birchwood, Warrington NewTown, UK	2010	Urban Forestry & Urban Greening
Impact of ecological disturbance on awareness of urban nature and sense of environmental stewardship in residential neighborhoods	2011	Landscape and Urban Planning
Marine ecosystem services in urban areas: Do the strategic documents of Polish coastal municipalities reflect their importance?	2013	Landscape and Urban Planning
Is biodiversity attractive? On-site perception of recreational and biodiversity values in urban green space	2013	Landscape and Urban Planning
Urban parks and attitudes about ecosystem services: does park use matter?	2014	Journal of Park and Recreation Administration
Evaluating restoration in urban green spaces: does setting type make a difference?	2014	Landscape and Urban Planning
Perceptions of recreation trail impacts on an urban forest walk: a controlled field experiment	2015	Urban Forestry & Urban Greening
Preferences for street configuration and street tree planting in urban Hong Kong	2015	Urban Forestry & Urban Greening
Residents' preference and willingness to conserve homestead woodlands: coastal villages in Okinawa prefecture, Japan	2015	Urban Forestry & Urban Greening
Tending their urban forest: residents' motivations for tree planting and removal	2016	Urban Forestry & Urban Greening
Assessing residents' reactions to urban forest disservices: a case study of a major storm event	2016	Landscape and Urban Planning
People's perception influences on the use of green spaces in socio-economically differentiated neighborhoods	2016	Urban Forestry & Urban Greening
Recreational preferences along a naturalness-development continuum: results from surveys in two unequal urban forests in Europe	2016	Journal of Outdoor Recreation and Tourism
Investigating perception of green structure configuration for afforestation in urban brownfield development by visual methods—A case study in Leipzig, Germany	2016	Urban Forestry & Urban Greening

Citizens' perception of and satisfaction with urban forests and green space: results from selected Southeast European cities	2017	Urban Forestry & Urban Greening
Pragmatic factors outweigh ecosystem service goals in street tree selection and planting in South-East Queensland cities	2017	Urban Forestry & Urban Greening
Weekend visitors' views and perceptions at an urban national forest park of Cyprus during summertime	2017	Journal of Outdoor Recreation and Tourism
Mapping ecosystem services on brownfields in Leipzig, Germany	2018	Ecosystem services
Street trees as cultural elements in the city: understanding how perception affects ecosystem services management in Porto, Portugal	2018	Urban Forestry & Urban Greening
To plant, remove, or retain: understanding property owner decisions about trees during redevelopment	2019	Urban Forestry & Urban Greening
Exploring park visitor perceptions of 'flowering bee lawns' in neighborhood parks in Minneapolis, MN, US	2019	Landscape and Urban Planning
Assessing recreational values of a peri-urban nature park by synthesizing perceptions and preferences of trail users	2019	Journal of Environmental Psychology
Between tree lovers and tree haters. drivers of public perception regarding street trees and its implications on the urban green infrastructure planning	2019	Urban Forestry & Urban Greening
Old-growth trees in homesteads on the Ryukyu archipelago, Japan: uses, management, and conservation	2020	Small-scale Forestry
Urban vegetation types are not perceived equally in providing ecosystem services and disservices	2020	Sustainability
Attitudes toward residential trees and awareness of tree services and disservices in a tropical city	2020	Sustainability
Perception of ecosystem services and disservices on a peri-urban communal forest: are landowners' and visitors' perspectives dissimilar?	2020	Ecosystem services
Urban park visitor preferences for vegetation – An on-site qualitative research study	2020	Plants People Planet
Visitor access, use, and desired improvements in urban parks	2021	Urban Forestry & Urban Greening
Why garden? – Attitudes and the perceived health benefits of home gardening	2021	Urban Forestry & Urban Greening
Visual perception of urban greening in public parks: evidence from Trabzon city, Turkey	2021	Journal of Environmental Engineering and Landscape Management
The capacity of urban parks for providing regulating and cultural ecosystem services versus their social perception	2021	Land Use Policy

The influence of street trees on pedestrian perceptions of safety: results from environmental justice areas of Massachusetts, U.S.	2021	Urban Forestry & Urban Greening
Thermal comfort and perceptions of the ecosystem services and disservices of urban trees in Florence	2021	Forests
What do people value in urban green? Linking characteristics of urban green spaces to users' perceptions of nature benefits, disturbances, and disservices	2021	Ecology and Society
Factors determining on-site perception of ecosystem services and disservices from street trees in a densely urbanized area	2021	Urban Forestry & Urban Greening
Stakeholders' perceptions of appropriate nature-based solutions in the urban context	2021	Journal of Environmental Management
Environmental and socioeconomic factors influencing the use of urban green spaces in Coimbra (Portugal)	2021	Science of the Total Environment
Habitat value of, and social attitudes towards, dead trees in Canberra's urban forest	2021	Australian Forestry
Urban-greenery demands are affected by perceptions of ecosystem services and disservices, and socio-demographic and environmental-cultural factors	2022	Land Use Policy
Values and beliefs about urban forests from diverse urban contexts and populations in the Greater Toronto area	2022	Urban Forestry & Urban Greening
The impact of different tree planting strategies on ecosystem services and disservices in the piazzas of a northern Italian city	2022	Urban Ecosystems
Communication of ecosystem services and disservices in local newspapers in Winnipeg, Canada	2022	Urban Forestry & Urban Greening
Urban forest usage and perception of ecosystem services – a comparison between teenagers and adults	2022	Urban Forestry & Urban Greening
Understanding the benefits of public urban green space: how do perceptions vary between professionals and users?	2022	Landscape and Urban Planning
The impact of the COVID-19 pandemic on the importance of urban green spaces to the public	2022	Land Use Policy
The green walk—An analysis for evaluating the accessibility of urban green spaces	2022	Urban Forestry & Urban Greening
The perception of urban forests in post-mining areas: a case study of Sosnowiec-Poland	2022	International Journal of Environmental Research and Public Health
Citizens' use of public urban green spaces at the time of the COVID-19 pandemic in Italy	2022	Urban Forestry & Urban Greening
Evaluating the importance of urban green spaces: a spatial analysis of citizens' perceptions in Thessaloniki	2022	Euro-Mediterranean Journal for Environmental Integration

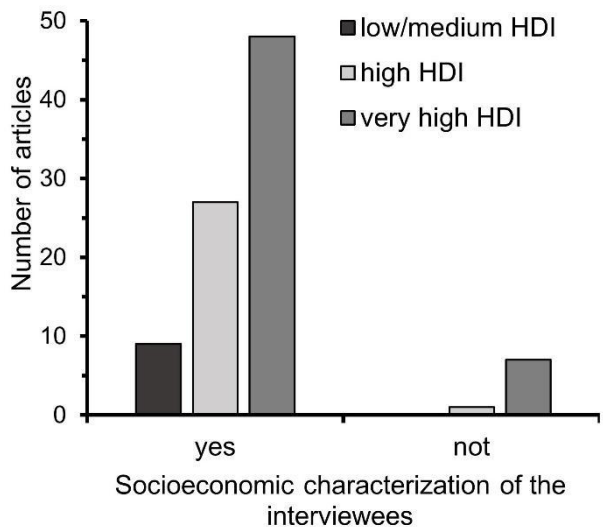
Community perceptions of ecosystem services and disservices linked to urban tree plantings	2023	Urban Forestry & Urban Greening
Valuation of visitor perception of urban forest ecosystem services in Kuala Lumpur	2023	Land
Relevance of ecosystem services and disservices from green infrastructure perceived by the inhabitants of two Portuguese cities dealing with climate change: implications for environmental and intersectional justice	2023	Journal of Environmental Planning and Management
Identifying the factors affecting citizens' willingness to participate in urban forest governance: Evidence from the municipality of Palermo, Italy	2023	Forest Policy and Economics
A living street and not just green": exploring public preferences and concerns regarding nature-based solution implementation in urban streetscapes	2023	Urban Forestry & Urban Greening
Not all 'greenness' is equal: Influence of perceived neighborhood environments on psychological well-being in Chicago	2023	Urban Forestry & Urban Greening
Initiatives in urban greening: analysis of attitudes towards a voluntary-assisted urban residential road verge-planting program	2023	Australian Geographer
Perceptions of urban green infrastructure in two contrasting municipalities of the metropolitan area of Athens, Greece	2023	Nature-Based Solutions
Perceived and geographic access to urban green spaces in New York City during COVID-19	2023	Cities
Convergence in perceptions of ecosystem services supports green infrastructure decision-making in a semi-arid city (63)	2023	Environmental Management
High HDI countries (28 articles)		
Forest recreation opportunity spectrum in the suburban mountainous region of Beijing	2012	Journal of Urban Planning and Development
Socioeconomic effect on perception of urban green spaces in Guangzhou, China	2013	Cities
The extent and perceptions of vandalism as a cause of street tree damage in small towns in the Eastern Cape, South Africa	2014	Urban Forestry & Urban Greening
How do people perceive urban trees? Assessing likes and dislikes in relation to the trees of a city	2014	Urban Ecosystems
Arborização urbana: Percepção ambiental dos moradores dos bairros Bom Pastor e Centro da cidade de Ubá/MG	2014	Eletrônica em Gestão, Educação e Tecnologia Ambiental
Residents' understanding of the role of green infrastructure for climate change adaptation in Hangzhou, China	2015	Landscape and Urban Planning
Multiple benefits and values of trees in urban landscapes in two towns in northern South Africa	2015	Landscape and Urban Planning

Residents' ecological and aesthetical perceptions toward spontaneous vegetation in urban parks in China	2019	Urban Forestry & Urban Greening
Perceptions and preferences for urban trees across multiple socio-economic contexts in the Eastern Cape, South Africa	2019	Landscape and Urban Planning
Perceptions of impact: invasive alien plants in the urban environment	2019	Journal of Environmental Management
Preferences and emotion perceptions of ornamental plant species for green	2019	Urban Forestry & Urban Greening
Percepção da arborização urbana pelos moradores de duas zonas do município de Santarém (PA)	2019	Nature and Conservation
Percepção ambiental dos moradores do entorno da mata da paixão, em São José do Rio Pardo, SP	2020	Holos
Perceptions of ecosystem services, disservices and willingness-to-pay for urban green space conservation	2020	Journal of Environmental Management
Visualizing evaluation model of human perceptions and characteristic indicators of landscape visual quality in urban green spaces by using nomograms	2021	Urban Forestry & Urban Greening
Cultural ecosystem services and disservices in an urban park in Bogota, Colombia	2021	Ambiente & Sociedade
Plants with health risks undermine residents' perceived health status, evaluations and expectations of residential greenery	2021	Landscape and Urban Planning
Governance, nature's contributions to people, and investing in conservation influence the valuation of urban green areas	2021	Land
Perceived biodiversity, sound, naturalness and safety enhance the restorative quality and wellbeing benefits of green and blue space in a neotropical city	2021	Science of the Total Environment
Percepção da população sobre espaços arborizados de Viçosa – Mg	2022	Geo UERJ
Valuing ecosystem services and disservices of blue/green infrastructure. Evidence from a choice experiment in Vietnam	2022	Economic Analysis and Policy
Social inequality deeply affects people's perception of ecosystem services and disservices provided by street trees	2022	Ecosystem services
Chinese residents' perceived ecosystem services and disservices impacts behavioral intention for urban community garden: an extension of the theory of planned behavior	2022	Agronomy
The association between plant diversity and perceived emotions for visitors in urban forests: a pilot study across 49 parks in China	2022	Urban Forestry & Urban Greening

The effect of spontaneous wild vegetation on landscape preferences in urban green spaces	2023	Urban Forestry & Urban Greening
The role of the mechanisms of adjustment in moderating the relationship between perceived crowding and satisfaction in urban forest parks	2023	Forests
Antecedents of urban trees to walkability: an exploratory study in Brazil	2023	Revista Gestão & Sustentabilidade Ambiental
Evaluation of soundscape perception in urban forests using acoustic indices: a case study in Beijing	2023	Forests
<i>Low and medium HDI countries (11 articles)</i>		
Community perceptions towards the establishment of an urban forest plantation: a case of Dzivaresekwa, Zimbabwe	2014	International Journal of Agricultural Research Innovation and Technology
What determines the use of urban green spaces in highly urbanized areas? – examples from two fast growing Asian cities	2016	Urban Forestry & Urban Greening
Use of public urban green spaces for spiritual services in Bulawayo, Zimbabwe	2019	Urban Forestry & Urban Greening
Meeting a diversity of needs through a diversity of species: urban residents' favourite and disliked tree species across eleven towns in South Africa and Zimbabwe	2020	Urban Forestry & Urban Greening
Urbanization alters ecosystem service preferences in a Small Island Developing State	2020	Ecosystem services
Exploring the impacts of urban expansion on green spaces availability and delivery of ecosystem services in the Accra metropolis	2021	Environmental Challenges
Disentangling ecosystem services perceptions from blue infrastructure around a rapidly expanding megacity	2022	Landscape and Urban Planning
Why cultural ecosystem services matter most: Exploring the pathways linking green spaces and mental health in a low-income country	2022	Science of the Total Environment
Perception of local communities on protected areas: lessons drawn from the Bale Mountains National Park, Ethiopia	2023	Ecosystems and People
Citizens and urban greening: Do Bobo Dioulasso dwellers participate in greenhouse gas mitigation through urban forestry and greening?	2023	Heliyon
Users' preferences and perceptions towards urban green spaces in rapidly urbanized cities: The case of Debre Berhan and Debre Markos, Ethiopia	2023	Heliyon

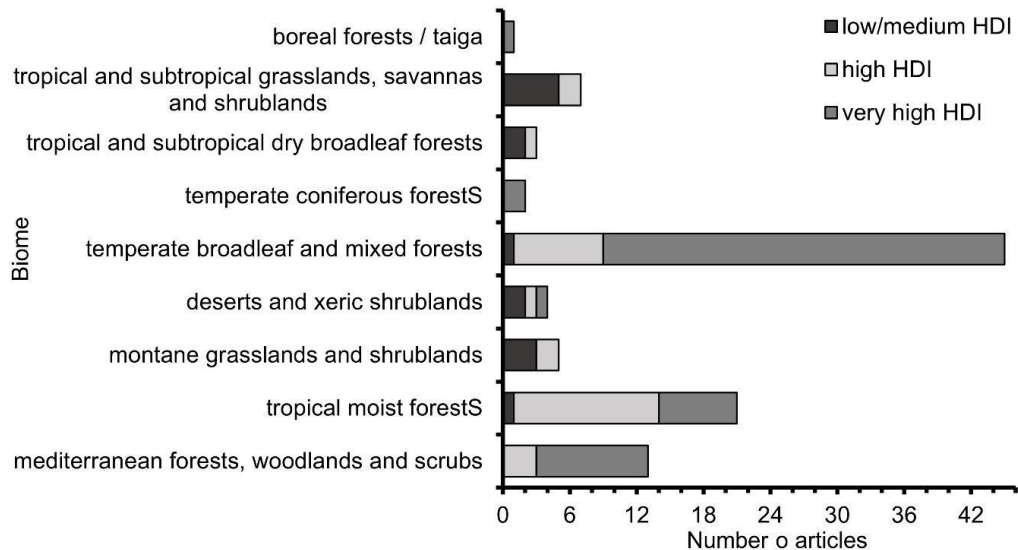
Source: the author, 2025.

Figure S1 - Terrestrial biomes where the articles published on the simultaneous perception of ecosystem services (ES) and disservices (EDS) in urban forests were carried out, according to the country's Human Development Index (HDI) category



Source: the author, 2025.

Figure S2 - Socioeconomic characterization of interviewees regarding the simultaneous perception of ecosystem services (ES) and disservices (EDS) in urban forests according to the country's Human Development Index (HDI) category



Source: the author, 2025.