Appendix A. The list of 63 reviewed studies.

Source	Journal	Multi-source	Multi-temporal	Multi-scale	Study area	Applications
Adam and Smith (2014) [1]	Landscape and Urban Planning	Landsat and MODIS imagery	Summertime between 2000 and 2011		The Greater Sydney metropolitan region, Australia	Urban heat island
Alonzo et al (2014) [2]	Remote Sensing of Environment	LiDAR data and AVIRIS imagery			Santa Barbara, US	Tree species
Alonzo et al (2016) [3]	Urban Forestry & Urban Greening	LiDAR data and AVIRIS imagery			Santa Barbara, US	Tree species and carbon storage
Bae and Ryu (2015) [4]	Landscape and Urban Planning	Landsat-7, Landsat-8 and MODIS imagery	Some years between 2003 and 2013		Seoul Forest Park, Seoul, Republic of Korea	Carbon storage
Bottalico et al (2017) [5]	Urban Forestry & Urban Greening	LiDAR data and aerial imagery			Florence, Italy	Tree species and air quality
Chaturvedi et al (2013) [6]	Urban Forestry & Urban Greening			Local level: each zone; city level: Nagpur	5 zones in Nagpur, India	Tree species and air quality
Chen L.X. et al (2018) [7]	Ecological Indicators	IKONOS and Worldview-2 imagery	2001 and 2015		Two towns in Beijing, China	Canopy cover
Chen G. et al (2018) [8]	Journal of Environmental Management	LiDAR data and NAIP aerial imagery			Charlotte, North Carolina, US	Carbon storage
Cui et al (2018) [9]	Sustainability	Landsat-5/-7 imagery	1999, 2005, 2009 and 2013		Zhuhai, China	Greenspace configuration
Davis et al (2016) [10]	Applied Geography	LiDAR data and aerial imagery			Cook County, Illinois, US	Urban heat island
Di Leo et al (2016) [11]	Environment, Development and Sustainability	Landsat-5, Landsat-7 and Landsat-8 imagery	Some years between 1991 and 2013		Bobo-Dioulasso, Burkina Faso	Urban heat island
Duncan et al (2019) [12]	Science of the Total Environment	MODIS imagery and aerial imagery	Each year between 2003 and 2016	Local level: local details; city level: Perth	The Perth and Peel metropolitan region, Australia	Urban heat island

Fan et al (2015) [13]	Progress in Physical Geography	QuickBird and ASTER imagery			Central Phoenix, Arizona, US	Urban heat island
Feyisa et al (2014) [14]	Landscape and Urban Planning			Local level: each urban park; city level: Phoenix	21 urban parks in Addis Ababa	Urban heat island
Gillespie et al (2017) [15]	Urban Ecosystem	LiDAR data and Landsat, QuickBird, MODIS imagery			Los Angeles, US	Tree species
Godwin et al (2015) [16]	Landscape and Urban planning	LiDAR data and aerial imagery			Charlotte metropolitan region, US	Carbon storage
Gu et al (2015) [17]	Remote sensing of Environment	LiDAR data and AVIRIS imagery			Madison and neighbouring municipalities, and suburbs in south central Wisconsin, US	Tree species
He et al (2013) [18]	PLOS One	LiDAR data and SPOT-5 imagery			Beijing, China	Tree biomass
Hostetler et al (2013) [19]	Remote Sensing Letters	Landsat-5 imagery and NAIP aerial imagery	2008 and 2010		Central Massachusetts, US	Canopy cover
Huang et al (2013) [20]	Frontiers of Earth Science	LiDAR data and HSR satellite imagery			Lujiazui Region, Shanghai, China	Forest inventory
Huang and Ye (2015) [21]	Sustainability	Landsat-5/-7 and ASTER imagery			Beijing, China	Urban heat island
Kanniah (2017) [22]	Urban Forestry & Urban Greening	Landsat series imagery	2001, 2013, 2014 and 2016		Kuala Lumpur, Malaysia	Greenspace configuration
Kong et al (2014) [23]	Landscape and Urban Planning	IKONOS and Landsat-5 imagery			Metropolitan area of Nanjing, China	Urban heat island
Lafortezza and Giannico (2019) [24]		WorldView-2 imagery and LiDAR data		Local level: gardens and parks; city level: Bari	Bari, Italy	Greenspace configuration

Lee et al (2016) [25]	Urban Forestry & Urban Greening	LiDAR data and NAIP aerial imagery			Sacramento, US	Tree biomass
Li, et al (2015) [26]	Remote Sensing	WorldView-2 and WorldView-3 imagery	2012 and 2014		Two universities in Beijing, China	Tree species
Li et al (2018) [27]	Sustainability	Landsat series and Google imagery	2004, 2009 and 2014		Shanghai, China	Greenspace configuration
Liu et al (2017) [28]	Remote Sensing of Environment	LiDAR data and aerial imagery			Surrey, British Columbia, Canada	Tree species
Louarn et al (2017) [29]	Remote Sensing		2015 and 2016		Marseille, France	Tree species
Marando et al (2016) [30]	Remote Sensing	Landsat-8 and MODIS imagery			Rome, Italy	Tree species and air quality
McGovern and Pasher (2016) [31]	Urban Forestry & Urban Greening		Years between 1990 and 2012		Canada	Canopy cover and carbon storage
McPherson et al (2013) [32]	Landscape and Urban Planning			City level: each city; regional level: two cities together	Metropolitan area of Los Angeles and Sacramento, US	Carbon storage
Michael et al (2018) [33]	Remote Sensing	MODIS, PlanetScope and Sentinel-2A imagery	Five dates between 2016 and 2017		Haifa, Israel	Forest fires
Modugno et al (2016) [34]	Journal of Environmental Management	Multiple sources of satellite imagery			Across the entire European region	Forest fires
O'Neil-Dunne et al (2014) [35]	Remote Sensing	LiDAR data and NAIP aerial imagery			More than 70 cities in US and Canada	Canopy cover
Ossola and Hopton (2018) [36]	Science of the Total Environment	LiDAR data and NAIP aerial imagery	2008 and 2010 for Denver, 2013 and 2015 for Milwaukee		Denver and Milwaukee, US	Canopy cover
Ozkan et al (2016) [37]	Journal of the Indian Society of Remote Sensing	RapidEye, ASTER and Landsat-8 imagery			Istanbul, Turkey	Tree species

Parmehr et al (2016a) [38]	ISPRS Annals of Photogrammetry, Remote Sensing and Spatial Information Sciences	LiDAR data and satellite imagery			Melbourne, Australia	Canopy cover
Parmehr et al (2016b) [39]	Urban Forestry & Urban Greening	LiDAR data and satellite imagery			Melbourne, Australia	Canopy cover
Plant and Sipe (2016) [40]	Urban Forestry & Urban Greening	LiDAR data and WorldView-2 imagery			Brisbane, Australia	Tree species
Pontius et al (2017) [41]	Remote Sensing of Environment	LiDAR data and aerial imagery			Bowie, Maryland, US	Tree species
Pu et al (2018) [42]	International Journal of Applied Earth Observation and Geoinformation		Five multi-seasonal images in 2015		Tampa, Florida, US	Tree species
Qian et al (2015a) [43]	Landscape Ecology	Landsat-5, SPOT-5 and ALOS imagery	2005 and 2009		Two well-developed districts in Beijing, China	Greenspace configuration
Qian et al (2015b) [44]	Urban Forestry & Urban Greening	SPOT-5 and ALOS imagery	2005 and 2009	Local level: the four belts divided by ring roads; city level: the entire central area of Beijing	Beijing, China	Greenspace configuration
Raciti et al (2014) [45]	Science of the Total Environment	LiDAR data and QuickBird imagery			The greater Boston urban area, US	Tree biomass and carbon storage
Ren et al (2013) [46]	Forests	Landsat-5 and SPOT imagery			33 urban parks in Changchun, China	Urban heat island
Ren et al (2015) [47]	Journal of the Indian Society of Remote Sensing	Landsat-5 and SPOT imagery			Changchun, China	Urban heat island
Ren et al (2016) [48]	Environmental Pollution		1996 and 2006		Xiamen, China	Urban heat island

Ren et al (2018) [49]	Forests		1984, 1995, 2005 and 2014		Changchun, China	Greenspace configuration
Rogan et al (2013) [50]	Applied Geography	Landsat-5 and NAIP aerial imagery	2008 and 2010		Central Massachusetts, US	Urban heat island
Schreyer et al (2014) [51]	Remote Sensing	LiDAR data and QuickBird imagery			A transect in Berlin, German	Carbon storage
Shouse et al (2013) [52]	International Journal of Applied Earth Observation and Geoinformation	Landsat-5, MODIS and aerial imagery			Cherokee Park, Louisville, US	Tree species
Singh et al (2015) [53]	International Journal of Applied Earth Observation and Geoinformation	IKONOS imagery and LiDAR data			The urbanising region of Charlotte, US	Tree species
Singh et al (2018) [54]	ISPRS Journal of Photogrammetry and Remote Sensing		A monthly time series in 2011		Mecklenburg County, North Carolina, US	Tree species
Song et al (2016) [55]	Urban Forestry & Urban Greening		2004, 2008 and 2010		An urban park in Osaka, Japan	Canopy cover
Sung (2013) [56]	Urban Forestry & Urban Greening	Landsat and NAIP aerial imagery			Two neighbourhoods in the northern Houston metropolitan area, US	Urban heat island
Tigges et al (2013) [57]	Remote Sensing of Environment		Five images obtained within the growing season in 2009		Berlin, Germany	Tree species
Whitman et al (2013) [58]	Environmental Management	LiDAR data and QuickBird imagery			Halifax Regional Municipality of Nova Scotia, Canada	Forest fires
Wu et al (2018) [59]	Ecological Indicators	Landsat-8 and Google imagery			The Pearl River Delta area in southern China	Urban heat island

Yang et al (2014) [60]	Urban Forestry & Urban Greening	Landsat-5 and Landsat-7 imagery	1990,2000, and 2010	City level: each city; regional level: 30 cities	30 major cities in China	Greenspace configuration
Yao et al (2015) [61]	Urban Forestry & Urban Greening			Local level: urban functional zones/urban functional blocks; city level: central Beijing	Central Beijing, China	Canopy cover and water retention
Zhang et al (2015) [62]	Remote Sensing	LiDAR data and aerial imagery			The Turtle Creek Corridor, Texas, US	Forest inventory
Zuo et al (2018) [63]	Remote Sensing	Landsat-5/-8	2004 and 2014		Jinjiang, China	Urban heat island

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