

# Puay Yok Tan

## List of Publications by Year in descending order

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Version: 2024-02-01

72  
papers

3,191  
citations

185998

28  
h-index

155451

55  
g-index

76  
all docs

76  
docs citations

76  
times ranked

2517  
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermal evaluation of vertical greenery systems for building walls. <i>Building and Environment</i> , 2010, 45, 663-672.	3.0	436
2	Perspectives on five decades of the urban greening of Singapore. <i>Cities</i> , 2013, 32, 24-32.	2.7	214
3	Energy simulation of vertical greenery systems. <i>Energy and Buildings</i> , 2009, 41, 1401-1408.	3.1	198
4	Acoustics evaluation of vertical greenery systems for building walls. <i>Building and Environment</i> , 2010, 45, 411-420.	3.0	186
5	Study of thermal performance of extensive rooftop greenery systems in the tropical climate. <i>Building and Environment</i> , 2007, 42, 25-54.	3.0	184
6	Multi-year comparison of the effects of spatial pattern of urban green spaces on urban land surface temperature. <i>Landscape and Urban Planning</i> , 2019, 184, 44-58.	3.4	172
7	Effects of spatial scale on assessment of spatial equity of urban park provision. <i>Landscape and Urban Planning</i> , 2017, 158, 139-154.	3.4	161
8	The economic benefits and costs of trees in urban forest stewardship: A systematic review. <i>Urban Forestry and Urban Greening</i> , 2018, 29, 162-170.	2.3	99
9	Perception Studies of Vertical Greenery Systems in Singapore. <i>Journal of the Urban Planning and Development Division, ASCE</i> , 2010, 136, 330-338.	0.8	82
10	Bioretention systems for stormwater management: Recent advances and future prospects. <i>Journal of Environmental Management</i> , 2021, 292, 112766.	3.8	81
11	Multi-city comparison of the relationships between spatial pattern and cooling effect of urban green spaces in four major Asian cities. <i>Ecological Indicators</i> , 2019, 98, 200-213.	2.6	78
12	Integrating solutions to adapt cities for climate change. <i>Lancet Planetary Health</i> , The, 2021, 5, e479-e486.	5.1	70
13	A conceptual framework to untangle the concept of urban ecosystem services. <i>Landscape and Urban Planning</i> , 2020, 200, 103837.	3.4	68
14	Impact of plant evapotranspiration rate and shrub albedo on temperature reduction in the tropical outdoor environment. <i>Building and Environment</i> , 2015, 94, 206-217.	3.0	64
15	Associations between Urban Green Spaces and Health are Dependent on the Analytical Scale and How Urban Green Spaces are Measured. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 578.	1.2	60
16	Relative importance of quantitative and qualitative aspects of urban green spaces in promoting health. <i>Landscape and Urban Planning</i> , 2021, 213, 104131.	3.4	59
17	Does geo-located social media reflect the visit frequency of urban parks? A city-wide analysis using the count and content of photographs. <i>Landscape and Urban Planning</i> , 2020, 203, 103908.	3.4	52
18	Urban ecological research in Singapore and its relevance to the advancement of urban ecology and sustainability. <i>Landscape and Urban Planning</i> , 2014, 125, 271-289.	3.4	51

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19	The effects of land use on spatial pattern of urban green spaces and their cooling ability. <i>Urban Climate</i> , 2021, 35, 100743.	2.4	49
20	A conceptual framework for studying urban green spaces effects on health. <i>Journal of Urban Ecology</i> , 2017, 3, .	0.6	43
21	Assessment of light adequacy for vertical farming in a tropical city. <i>Urban Forestry and Urban Greening</i> , 2018, 29, 49-57.	2.3	42
22	Plant Water Status and Fruit Quality in `Braeburn' Apples. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 1994, 29, 1274-1278.	0.5	40
23	Tree stability in an improved soil to withstand wind loading. <i>Urban Forestry and Urban Greening</i> , 2009, 8, 237-247.	2.3	37
24	The impact of gardening on mental resilience in times of stress: A case study during the COVID-19 pandemic in Singapore. <i>Urban Forestry and Urban Greening</i> , 2022, 68, 127448.	2.3	37
25	Physiological responses of <i>Catharanthus roseus</i> (periwinkle) to ash yellows phytoplasmal infection. <i>New Phytologist</i> , 2001, 150, 757-769.	3.5	36
26	Window View and the Brain: Effects of Floor Level and Green Cover on the Alpha and Beta Rhythms in a Passive Exposure EEG Experiment. <i>International Journal of Environmental Research and Public Health</i> , 2018, 15, 2358.	1.2	36
27	Blue-Green Infrastructure: New Frontier for Sustainable Urban Stormwater Management. <i>Advances in 21st Century Human Settlements</i> , 2017, , 203-226.	0.3	31
28	Impact of soil and water retention characteristics on green roof thermal performance. <i>Energy and Buildings</i> , 2017, 152, 830-842.	3.1	30
29	Transpiration and cooling potential of tropical urban trees from different native habitats. <i>Science of the Total Environment</i> , 2020, 705, 135764.	3.9	30
30	Benefits of trees in tropical cities. <i>Science</i> , 2017, 356, 1241-1241.	6.0	29
31	Demand for parks and perceived accessibility as key determinants of urban park use behavior. <i>Urban Forestry and Urban Greening</i> , 2019, 44, 126420.	2.3	29
32	Temperature and air pollution reductions by urban green spaces are highly valued in a tropical city-state. <i>Urban Forestry and Urban Greening</i> , 2020, 55, 126827.	2.3	29
33	Top 100 research questions for biodiversity conservation in Southeast Asia. <i>Biological Conservation</i> , 2019, 234, 211-220.	1.9	28
34	Using social media user attributes to understand humanâ€environment interactions at urban parks. <i>Scientific Reports</i> , 2020, 10, 808.	1.6	28
35	Understanding the stability of <i>Samanea saman</i> trees through tree pulling, analytical calculations and numerical models. <i>Urban Forestry and Urban Greening</i> , 2014, 13, 355-364.	2.3	27
36	Quantitative evaluation of plant evapotranspiration effect for green roof in tropical area: A case study in Singapore. <i>Energy and Buildings</i> , 2021, 241, 110973.	3.1	19

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37	Perspectives on narrowing the action gap between landscape science and metropolitan governance: Practice in the US and China. <i>Landscape and Urban Planning</i> , 2014, 125, 329-334.	3.4	18
38	Building shade affects light environment and urban greenery in high-density residential estates in Singapore. <i>Urban Forestry and Urban Greening</i> , 2014, 13, 771-784.	2.3	18
39	A method to partition the relative effects of evaporative cooling and shading on air temperature within vegetation canopy. <i>Journal of Urban Ecology</i> , 2018, 4, .	0.6	18
40	Walkability Assessment in a Rapidly Urbanizing City and Its Relationship with Residential Estate Value. <i>Sustainability</i> , 2019, 11, 2205.	1.6	18
41	Growth light provision for indoor greenery: A case study. <i>Energy and Buildings</i> , 2017, 144, 207-217.	3.1	16
42	The influence of the COVID-19 pandemic on the demand for different shades of green. <i>People and Nature</i> , 2022, 4, 505-518.	1.7	16
43	Tree-pulling experiment: an analysis into the mechanical stability of rain trees. <i>Trees - Structure and Function</i> , 2010, 24, 1007-1015.	0.9	15
44	Global Variation in Climate, Human Development, and Population Density Has Implications for Urban Ecosystem Services. <i>Sustainability</i> , 2019, 11, 6200.	1.6	15
45	The effects of urban forms on photosynthetically active radiation and urban greenery in a compact city. <i>Urban Ecosystems</i> , 2015, 18, 937-961.	1.1	14
46	Deforestation in a tropical compact city part a: understanding its socio-ecological impacts. <i>Smart and Sustainable Built Environment</i> , 2016, 5, .	2.2	13
47	Model development of Roof Thermal Transfer Value (RTTV) for green roof in tropical area: A case study in Singapore. <i>Building and Environment</i> , 2021, 203, 108101.	3.0	13
48	Tropical Street Trees and Climate Uncertainty in Southeast Asia. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2011, 46, 167-172.	0.5	12
49	Stability of containerized urban street trees. <i>Landscape and Ecological Engineering</i> , 2016, 12, 13-24.	0.7	11
50	Field instrumentation for monitoring of water, heat, and gas transfers through unsaturated soils. <i>Engineering Geology</i> , 2012, 151, 24-36.	2.9	10
51	Height-diameter allometry for the management of city trees in the tropics. <i>Environmental Research Letters</i> , 2020, 15, 114017.	2.2	9
52	Photosynthetically active radiation and comparison of methods for its estimation in equatorial Singapore. <i>Theoretical and Applied Climatology</i> , 2016, 123, 873-883.	1.3	8
53	Managing deforestation in a tropical compact city part b: urban ecological approaches to landscape design. <i>Smart and Sustainable Built Environment</i> , 2016, 5, .	2.2	8
54	Imperatives for Greening Cities: A Historical Perspective. <i>Advances in 21st Century Human Settlements</i> , 2017, , 41-70.	0.3	8

#	ARTICLE	IF	CITATIONS
55	Landscapes for compact cities. <i>Journal of Landscape Architecture</i> , 2019, 14, 4-7.	0.1	7
56	Perspectives on Greening of Cities Through an Ecological Lens. <i>Advances in 21st Century Human Settlements</i> , 2017, , 15-39.	0.3	6
57	The role of urban nature experiences in sustainable consumption: a transboundary urban ecosystem service. <i>Environment, Development and Sustainability</i> , 0, , 1.	2.7	6
58	Greening Singapore: Past Achievements, Emerging Challenges. , 2016, , 177-195.		3
59	Urban Ecological Networks for Biodiversity Conservation in Cities. <i>Advances in 21st Century Human Settlements</i> , 2017, , 251-277.	0.3	3
60	The effect of dynamic albedos of plant canopy on thermal performance of rooftop greenery: A case study in Singapore. <i>Building and Environment</i> , 2021, 205, 108247.	3.0	3
61	Effect of soil hydraulic properties on water infiltration of containerised soil. <i>Landscape and Urban Planning</i> , 2017, 165, 84-92.	3.4	1
62	Introduction to Green City Idea and Ideal. <i>Advances in 21st Century Human Settlements</i> , 2017, , 1-11.	0.3	1
63	A Transdisciplinary Approach for the Validation of Neighborhood Landscape Design Guidelines. <i>Journal of the Urban Planning and Development Division, ASCE</i> , 2019, 145, 04019008.	0.8	1
64	ENVIRONMENTAL AND CLIMATE CHANGES IN ASIA: LESSONS IN HISTORY AND GAME CHANGERS IN ECONOMICS, POLITICS AND SCIENTIFIC RESEARCH. , 2015, , xxxiii-xlvi.		0
65	The Ultimate for Skyrise Greening: Buildings Like Trees, Cities Like Gardens. <i>CITYGREEN Nature &amp; Health in Cities</i> , 2011, 01, 98.	0.0	0
66	Assessment of Green Spatial Equity in Singapore's Urbanity. , 0, , .		0
67	BIOGENIC VOLATILE ORGANIC COMPOUNDS (BVOCs) EMISSIONS BY SELECTED STREET TREES IN SINGAPORE. , 2017, , 129-158.		0
68	THE CHALLENGES OF URBAN FOREST DEVELOPMENT: A CASE STUDY OF URBAN FOREST IN JAKARTA, INDONESIA. , 2017, , 443-468.		0
69	Neighbourhood Landscapes. , 2018, , 24-57.		0
70	Designing Neighbourhood Landscapes with Landscape Services. , 2018, , 94-203.		0
71	A Conceptual Framework for Neighbourhood Landscape Design. , 2018, , 58-77.		0
72	Landscapes in Urban Areas. , 2018, , 16-23.		0