Seung Hyun Cha

List of Publications by Year
in descending order

32 papers	734 citations	586496 16 h-index	620720 26 g-index
34 all docs	34 docs citations	34 times ranked	723 citing authors

#	Article	IF	Citations
1	Feasibility assessment of adopting distributed solar photovoltaics and phase change materials in multifamily residential buildings. Sustainable Production and Consumption, 2022, 29, 507-528.	5.7	7
2	Effects of lighting CCT and illuminance on visual perception and task performance in immersive virtual environments. Building and Environment, 2022, 209, 108678.	3.0	25
3	Review of applications and user perceptions of smart home technology for health and environmental monitoring. Journal of Computational Design and Engineering, 2022, 9, 857-889.	1.5	7
4	Toward productivity in future construction: mapping knowledge and finding insights for achieving successful offsite construction projects. Journal of Computational Design and Engineering, 2021, 8, 1-14.	1.5	23
5	A user-specific activity pattern generation framework for evidence-based ABW planning. Building and Environment, 2021, 189, 107519.	3.0	2
6	Elderly Perception on the Internet of Things-Based Integrated Smart-Home System. Sensors, 2021, 21, 1284.	2.1	47
7	Performance Optimization Studies on Heating, Cooling and Lighting Energy Systems of Buildings during the Design Stage: A Review. Sustainability, 2021, 13, 9815.	1.6	11
8	The role of space attributes in space-choice behaviour and satisfaction in an academic library. Journal of Librarianship and Information Science, 2020, 52, 399-409.	1.6	12
9	A human data-driven interaction estimation using IoT sensors for workplace design. Automation in Construction, 2020, 119, 103352.	4.8	8
10	Effects of Interior Color Schemes on Emotion, Task Performance, and Heart Rate in Immersive Virtual Environments. Journal of Interior Design, 2020, 45, 51-65.	0.4	20
11	A novel operation approach for the energy efficiency improvement of the HVAC system in office spaces through real-time big data analytics. Renewable and Sustainable Energy Reviews, 2020, 127, 109885.	8.2	37
12	Energy prediction techniques for large-scale buildings towards a sustainable built environment: A review. Energy and Buildings, 2020, 224, 110238.	3.1	68
13	Spatial perception of ceiling height and type variation in immersive virtual environments. Building and Environment, 2019, 163, 106285.	3.0	37
14	Empirical validation of the spatial-choice modelling approach to user simulation. Architectural Science Review, 2019, 62, 313-322.	1.1	2
15	Effectiveness of Immersive Virtual Reality-based Communication for Construction Projects. KSCE Journal of Civil Engineering, 2019, 23, 4972-4983.	0.9	32
16	Thermal characteristics of perforated self-rotating twisted tapes in a double-pipe heat exchanger. Applied Thermal Engineering, 2019, 162, 114296.	3.0	27
17	A conceptual framework for the real-time monitoring and diagnostic system for the optimal operation of smart building: A case study in Hotel ICON of Hong Kong. Energy Procedia, 2019, 158, 3107-3112.	1.8	6
18	A framework for group activity detection and recognition using smartphone sensors and beacons. Building and Environment, 2019, 158, 205-216.	3.0	27

#	Article	IF	Citations
19	Performance evaluation of a double-pipe heat exchanger fitted with self-rotating twisted tapes. Applied Thermal Engineering, 2019, 158, 113770.	3.0	35
20	The trilateration-based BLE Beacon system for analyzing user-identified space usage of New Ways of Working offices. Building and Environment, 2019, 149, 264-274.	3.0	13
21	A novel estimation approach for the solar radiation potential with its complex spatial pattern via machine-learning techniques. Renewable Energy, 2019, 133, 575-592.	4.3	19
22	The effects of indoor plants and artificial windows in an underground environment. Building and Environment, 2018, 138, 53-62.	3.0	63
23	A novel real-time method for HVAC system operation to improve indoor environmental quality in meeting rooms. Building and Environment, 2018, 144, 365-385.	3.0	30
24	Towards a well-planned, activity-based work environment: Automated recognition of office activities using accelerometers. Building and Environment, 2018, 144, 86-93.	3.0	21
25	An integrated model for estimating the techno-economic performance of the distributed solar generation system on building faÃ§ades: Focused on energy demand and supply. Applied Energy, 2018, 228, 1071-1090.	5.1	16
26	Modeling space preferences for accurate occupancy prediction during the design phase. Automation in Construction, 2018, 93, 135-147.	4.8	10
27	Modelling building usersâ€™ space preferences for group work: a discrete-choice experiment. Architectural Science Review, 2017, 60, 460-471.	1.1	12
28	Immersive Virtual Environment as a Promising Tool for the Elderly-Friendly Assistive Robot Design. , 2017, , .		0
29	A framework for evaluating user involvement methods in architectural, engineering, and construction projects. Architectural Science Review, 2016, 59, 136-147.	1.1	21
30	Automated updating of space design requirements connecting user activities and space types. Automation in Construction, 2015, 50, 102-110.	4.8	16
31	What Matters for Students' Use of Physical Library Space?. Journal of Academic Librarianship, 2015, 41, 274-279.	1.3	74
32	A Conceptual Framework of an Agent-Based Space-Use Prediction Simulation System. Journal of Construction Engineering and Project Management, 2015, 5, 12-15.	0.6	4