Kwok Wei Shah

List of Publications by Year
in descending order

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69	3,728	109321	128289
papers	citations	35 h-index	60 g-index

73	73	73	3832
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A review on time series forecasting techniques for building energy consumption. Renewable and Sustainable Energy Reviews, 2017, 74, 902-924.	16.4	585
2	Time series forecasting for building energy consumption using weighted Support Vector Regression with differential evolution optimization technique. Energy and Buildings, 2016, 126, 94-103.	6.7	219
3	Anisotropic Growth of Titania onto Various Gold Nanostructures: Synthesis, Theoretical Understanding, and Optimization for Catalysis. Angewandte Chemie - International Edition, 2011, 50, 10140-10143.	13.8	139
4	Viologen-Based Electrochromic Materials: From Small Molecules, Polymers and Composites to Their Applications. Polymers, 2019, 11, 1839.	4.5	127
5	Evaluation of alkali-activated mortars containing high volume waste ceramic powder and fly ash replacing GBFS. Construction and Building Materials, 2019, 210, 78-92.	7.2	110
6	Synthesis and multiple reuse of eccentric Au@TiO2 nanostructures as catalysts. Chemical Communications, 2011, 47, 6689.	4.1	105
7	Alkali-activated mortars blended with glass bottle waste nano powder: Environmental benefit and sustainability. Journal of Cleaner Production, 2020, 243, 118636.	9.3	100
8	A review on enhancement of phase change materials - A nanomaterials perspective. Energy and Buildings, 2018, 175, 57-68.	6.7	93
9	Durability and life cycle evaluation of self-compacting concrete containing fly ash as GBFS replacement with alkali activation. Construction and Building Materials, 2020, 235, 117458.	7.2	93
10	Sustainability of nanomaterials based self-healing concrete: An all-inclusive insight. Journal of Building Engineering, 2019, 23, 155-171.	3.4	92
11	Properties of ceramic tile waste based alkali-activated mortars incorporating GBFS and fly ash. Construction and Building Materials, 2019, 214, 355-368.	7.2	92
12	Waste ceramic powder incorporated alkali activated mortars exposed to elevated Temperatures: Performance evaluation. Construction and Building Materials, 2018, 187, 307-317.	7.2	87
13	Nano-enhanced phase change materials (NePCMs): A review of numerical simulations. Applied Thermal Engineering, 2020, 178, 115492.	6.0	86
14	Shrinkage mechanisms and shrinkage-mitigating strategies of alkali-activated slag composites: A critical review. Construction and Building Materials, 2022, 318, 125993.	7.2	84
15	Effects of ceramic tile powder waste on properties of self-compacted alkali-activated concrete. Construction and Building Materials, 2020, 236, 117574.	7.2	83
16	Diversity of electron acceptor groups in donorâ€“acceptor type electrochromic conjugated polymers. Solar Energy Materials and Solar Cells, 2019, 197, 32-75.	6.2	80
17	Effects of POFA replaced with FA on durability properties of GBFS included alkali activated mortars. Construction and Building Materials, 2018, 175, 174-186.	7.2	79
18	A review on 5G technology for smart energy management and smart buildings in Singapore. Energy and AI, 2022, 7, 100116.	10.6	69

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19	A Review on Catalytic Nanomaterials for Volatile Organic Compounds VOC Removal and Their Applications for Healthy Buildings. Nanomaterials, 2019, 9, 910.	4.1	68
20	On the energy modulation of daytime radiative coolers: A review on infrared emissivity dynamic switch against overcooling. Solar Energy, 2020, 209, 278-301.	6.1	66
21	Composite Metalâ€“Oxide Nanocatalysts. ChemCatChem, 2012, 4, 1462-1484.	3.7	65
22	Recent Advances in Aggregation-Induced Emission Chemosensors for Anion Sensing. Molecules, 2019, 24, 2711.	3.8	65
23	A materials perspective on radiative cooling structures for buildings. Solar Energy, 2020, 207, 247-269.	6.1	63
24	Utilizing spend garnets as sand replacement in alkali-activated mortars containing fly ash and GBFS. Construction and Building Materials, 2019, 225, 132-145.	7.2	62
25	Performance evaluation approach for solar heat storage systems using phase change material. Energy and Buildings, 2017, 155, 115-127.	6.7	55
26	Performance evaluation and microstructure characterization of seawater and coral/sea sand alkali-activated mortars. Construction and Building Materials, 2020, 259, 120403.	7.2	53
27	Optimization of mix proportion of alkali-activated slag mortars prepared with seawater and coral sand. Construction and Building Materials, 2021, 284, 122805.	7.2	47
28	Influence of Glass Silica Waste Nano Powder on the Mechanical and Microstructure Properties of Alkali-Activated Mortars. Nanomaterials, 2020, 10, 324.	4.1	47
29	Application of phase change materials in building components and the use of nanotechnology for its improvement. Energy and Buildings, 2022, 262, 112018.	6.7	47
30	Optimized production of copper nanostructures with high yields for efficient use as thermal conductivity-enhancing PCM dopant. Journal of Materials Chemistry A, 2014, 2, 3417.	10.3	45
31	Aqueous route to facile, efficient and functional silica coating of metal nanoparticles at room temperature. Nanoscale, 2014, 6, 11273-11281.	5.6	44
32	Impact of curing temperatures and alkaline activators on compressive strength and porosity of ternary blended geopolymer mortars. Case Studies in Construction Materials, 2018, 9, e00205.	1.7	44
33	Electroluminochromic Materials: From Molecules to Polymers. Polymers, 2019, 11, 98.	4.5	43
34	Bond strength performance of ceramic, fly ash and GBFS ternary wastes combined alkali-activated mortars exposed to aggressive environments. Construction and Building Materials, 2020, 251, 119088.	7.2	38
35	Pyrrolophthalazine dione (PPD)-based donorâ€“acceptor polymers as high performance electrochromic materials. Polymer Chemistry, 2015, 6, 1487-1494.	3.9	36
36	Transparent nanomaterial-based solar cool coatings: Synthesis, morphologies and applications. Solar Energy, 2019, 193, 837-858.	6.1	35

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37	Evaluation of building glass performance metrics for the tropical climate. Energy and Buildings, 2017, 157, 195-203.	6.7	32
38	Biomimetic Self-Healing Cementitious Construction Materials for Smart Buildings. Biomimetics, 2020, 5, 47.	3.3	32
39	Synthesis, Morphologies and Building Applications of Nanostructured Polymers. Polymers, 2017, 9, 506.	4.5	30
40	Preparation and thermal conductivity enhancement of a paraffin wax-based composite phase change material doped with garlic stem biochar microparticles. Science of the Total Environment, 2022, 827, 154341.	8.0	29
41	Thermal performance enhancement of cementitious composite containing polystyrene/n-octadecane microcapsules: An experimental and numerical study. Renewable Energy, 2021, 169, 335-357.	8.9	28
42	Morphology, large scale synthesis and building applications of copper nanomaterials. Construction and Building Materials, 2018, 180, 544-578.	7.2	27
43	Evaluating the Roadmap of 5G Technology Implementation for Smart Building and Facilities Management in Singapore. Sustainability, 2020, 12, 10259.	3.2	25
44	One-Dimensional Nanostructure Engineering of Conducting Polymers for Thermoelectric Applications. Applied Sciences (Switzerland), 2019, 9, 1422.	2.5	23
45	Rapid Copper Metallization of Textile Materials: a Controlled Two-Step Route to Achieve User-Defined Patterns under Ambient Conditions. ACS Applied Materials & Interfaces, 2015, 7, 21545-21551.	8.0	21
46	Multifunctional Metallic Nanowires in Advanced Building Applications. Materials, 2019, 12, 1731.	2.9	21
47	Numerical investigation on the melting of nanoparticle-enhanced PCM in latent heat energy storage unit with spiral coil heat exchanger. Building Simulation, 2019, 12, 869-879.	5.6	21
48	Performance evaluation of alkali-activated mortars containing industrial wastes as surface repair materials. Journal of Building Engineering, 2020, 30, 101234.	3.4	20
49	Microwave-assisted Synthesis of Hexagonal Gold Nanoparticles Reduced by Organosilane (3-Mercaptopropyl)trimethoxysilane. Materials, 2019, 12, 1680.	2.9	14
50	A State-of-the-Art Review on Coreâ€“Shell Pigments Nanostructure Preparation and Test Methods. Micro, 2021, 1, 55-85.	2.0	14
51	Design and properties of seawater coral aggregate alkali-activated concrete. Journal of Sustainable Cement-Based Materials, 2022, 11, 187-201.	3.1	14
52	Perfluoropolyether/poly(ethylene glycol) triblock copolymers with controllable self-assembly behaviour for highly efficient anti-bacterial materials. RSC Advances, 2015, 5, 64170-64179.	3.6	13
53	Solution-Based Synthesis and Processing of Metal Chalcogenides for Thermoelectric Applications. Applied Sciences (Switzerland), 2019, 9, 1511.	2.5	12
54	Potential Applications of 5G Network Technology for Climate Change Control: A Scoping Review of Singapore. Sustainability, 2021, 13, 9720.	3.2	12

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55	Thermal analysis in daytime radiative cooling. IOP Conference Series: Materials Science and Engineering, 2019, 609, 072064.	0.6	11
56	Inorganic nanomaterials for fighting surface and airborne pathogens and viruses. Nano Express, 2020, 1, 032003.	2.4	10
57	Application of graphite platelets for heat transfer enhancement of cementitious composites containing microencapsulated phase change materials. Construction and Building Materials, 2022, 318, 126024.	7.2	9
58	COLLOIDAL PREPARATION OF MONODISPERSE NANOCRYSTALS. Journal of Molecular and Engineering Materials, 2014, 02, 1430001.	1.8	6
59	Functional nanomaterials and their applications toward smart and green buildings. , 2020, , 395-433.		5
60	Chapter 16. Electrochromic Smart Windows for Green Building Applications. RSC Smart Materials, 2019, , 494-520.	0.1	5
61	Nanosynthesis Techniques of Silica-Coated Nanostructures. , 0, , .		3
62	Thermophysics of pristine and functionalized carbon nanotube reinforced paraffin/EVA composites as phase change materials: a molecular dynamics study. Journal of Nanoparticle Research, 2022, 24, 1.	1.9	2
63	Methods and Structures for Self-assembly of Anisotropic 1D Nanocrystals. Nanoscience and Technology, 2015, , 27-68.	1.5	1
64	Nanomaterials and Nanocomposites for Energy-Efficient Building Envelopes. , 2021, , 2621-2648.		0
65	Nanomaterials for enhancement of thermal energy storage in building applications. , 2020, , 829-864.		0
66	Nanomaterials and Nanocomposites for Energy-Efficient Building Envelopes. , 2020, , 1-28.		0
67	Design guidelines for structural and non-structural applications. , 2022, , 509-527.		0
68	Nanostructures encapsulated phase-change materials for sustained thermal energy storage in concrete. , 2022, , 477-507.		0
69	Conjugated polymer and phase-change materials for energy storage and green buildings. , 2022, , 313-334.		0