Asghar Habibnejad Korayem

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/1407607/publications.pdf

Version: 2024-02-01

67 papers	3,682 citations	201674 27 h-index	133252 59 g-index
67 all docs	67 docs citations	67 times ranked	2741 citing authors

#	Article	IF	Citations
1	Computational predictions for estimating the performance of flexural and compressive strength of epoxy resin-based artificial stones. Engineering With Computers, 2023, 39, 347-372.	6.1	7
2	Designing Angstromâ€Scale Asymmetric MOFâ€onâ€MOF Cavities for High Monovalent Ion Selectivity. Advanced Materials, 2022, 34, e2107878.	21.0	47
3	Dispersion stability of chitosan grafted graphene oxide nanosheets in cementitious environments and their effects on the fluidity of cement mortar nanocomposites. Journal of Applied Polymer Science, 2022, 139, .	2.6	3
4	Evaluation of the phase composition, microstructure, mechanical performance, and resistance to acid attack of blended cement paste composed of binary trass-cement system. Construction and Building Materials, 2022, 333, 127356.	7.2	5
5	Heterogeneous asymmetric passable cavities within graphene oxide nanochannels for highly efficient lithium sieving. Desalination, 2022, 538, 115888.	8.2	11
6	Incorporation of Natural Lithiumâ€Ion Trappers into Graphene Oxide Nanosheets. Advanced Materials Technologies, 2021, 6, 2000665.	5.8	30
7	The effects of graphene oxide-silica nanohybrids on the workability, hydration, and mechanical properties of Portland cement paste. Construction and Building Materials, 2021, 266, 121016.	7.2	52
8	Insight from perfectly selective and ultrafast proton transport through anhydrous asymmetrical graphene oxide membranes under Grotthuss mechanism. Journal of Membrane Science, 2021, 618, 118735.	8.2	24
9	The synergic effects of metakaolin and polycarboxylate-ether on dispersion of graphene oxide in cementitious environments and macro-level properties of graphene oxide modified cement composites. Construction and Building Materials, 2021, 270, 121462.	7.2	12
10	Low humid transport of anions in layered double hydroxides membranes using polydopamine coating. Journal of Membrane Science, 2021, 624, 118974.	8.2	13
11	The halloysite nanotube effects on workability, mechanical properties, permeability and microstructure of cementitious mortar. Construction and Building Materials, 2021, 267, 120873.	7.2	15
12	Performance improvement of cement paste loaded with MWCNTâ€“magnetite nanocomposite. Advances in Cement Research, 2021, 33, 357-366.	1.6	2
13	Mechanical hydrolysis imparts self-destruction of water molecules under steric confinement. Physical Chemistry Chemical Physics, 2021, 23, 5999-6008.	2.8	5
14	Evaluation of the dispersion of metakaolinâ€“graphene oxide hybrid in water and cement pore solution: can metakaolin really improve the dispersion of graphene oxide in the calcium-rich environment of hydrating cement matrix?. RSC Advances, 2021, 11, 18623-18636.	3.6	14
15	Zeolitic imidazolate framework nanoleaves (ZIF-L) enhancement of strength and durability of portland cement composites. Construction and Building Materials, 2021, 272, 122015.	7.2	16
16	The mechanical strength of the artificial stones, containing the travertine wastes and sand. Journal of Materials Research and Technology, 2021, 11, 1688-1709.	5.8	24
17	Hydrous Proton Transfer through Graphene Interlayer: An Extraordinary Mechanism under Magnifier. Advanced Materials Technologies, 2021, 6, 2001049.	5.8	10
18	Environmental and mechanical impacts of waste incinerated acidic sludge ash as filler in hot mix asphalt. Case Studies in Construction Materials, 2021, 14, e00504.	1.7	6

#	Article	IF	Citations
19	Investigation of ultrasonication energy effect on workability, mechanical properties and pore structure of halloysite nanotube reinforced cement mortars. Construction and Building Materials, 2021, 304, 124610.	7.2	9
20	Simultaneous effects of nanosilica and basalt fiber on mechanical properties and durability of cementitious mortar: an experimental study. Canadian Journal of Civil Engineering, 2021, 48, 1323-1334.	1.3	8
21	Using graphene oxide to improve physical property and control ASR expansion of cement mortar. Construction and Building Materials, 2021, 307, 125006.	7.2	13
22	Turning two waste streams into one solution for enhancing sustainability of the built environment. Resources, Conservation and Recycling, 2021, 174, 105778.	10.8	8
23	The effect of D-spacing on the ion selectivity performance of MXene membrane. Journal of Membrane Science, 2021, 639, 119752.	8.2	38
24	Aging Evaluation of Amorphous Carbon-Modified Asphalt Binders Using Rheological and Chemical Approach. Journal of Materials in Civil Engineering, 2020, 32, .	2.9	11
25	Integrally hydrophobic cementitious composites made with waste amorphous carbon powder. Construction and Building Materials, 2020, 233, 117238.	7.2	17
26	New molecular understanding of hydrated ion trapping mechanism during thermally-driven desalination by pervaporation using GO membrane. Journal of Membrane Science, 2020, 598, 117687.	8.2	65
27	Bond Behavior between BFRP Rebar and Seawater Sea Sand Concrete. Advances in Civil Engineering, 2020, 2020, 1-10.	0.7	4
28	Effect of chemistry and geometry of GO nanochannels on the Li ion selectivity and recovery. Desalination, 2020, 496, 114729.	8.2	42
29	Microstructural study and surface properties of concrete pavements containing nanoparticles. Construction and Building Materials, 2020, 262, 120103.	7.2	17
30	High-performance cement containing nanosized Fe3O4â€“decorated graphene oxide. Construction and Building Materials, 2020, 260, 120454.	7.2	11
31	Orbital Overlapping through Induction Bonding Overcomes the Intrinsic Delamination of 3D-Printed Cementitious Binders. ACS Nano, 2020, 14, 9466-9477.	14.6	22
32	A comparative study on the mechanical, physical and morphological properties of cement-micro/nanoFe3O4 composite. Scientific Reports, 2020, 10, 2859.	3.3	27
33	Laboratory evaluation of stone mastic asphalt containing amorphous carbon powder as filler material. Construction and Building Materials, 2020, 243, 118280.	7.2	13
34	Graphene oxide for surface treatment of concrete: A novel method to protect concrete. Construction and Building Materials, 2020, 243, 118229.	7.2	38
35	Graphene oxide in ceramic-based layered structure: Nanosheet optimization. Construction and Building Materials, 2019, 224, 266-275.	7.2	15
36	Tunable, Multifunctional Ceramic Composites via Intercalation of Fused Graphene Boron Nitride Nanosheets. ACS Applied Materials & Interfaces, 2019, 11, 8635-8644.	8.0	25

#	Article	IF	Citations
37	Lithium ion-selective membrane with 2D subnanometer channels. Water Research, 2019, 159, 313-323.	11.3	159
38	A novel method to enhance the interlayer bonding of 3D printing concrete: An experimental and computational investigation. Cement and Concrete Composites, 2019, 99, 112-119.	10.7	101
39	Effects of Spraying Various Nanoparticles at Early Ages on Improving Surface Characteristics of Concrete Pavements. International Journal of Civil Engineering, 2019, 17, 1455-1468.	2.0	18
40	Design principles of ion selective nanostructured membranes for the extraction of lithium ions. Nature Communications, 2019, 10, 5793.	12.8	317
41	Barriers to achieving highly dispersed graphene oxide in cementitious composites: An experimental and computational study. Construction and Building Materials, 2019, 199, 269-278.	7.2	60
42	Mechanical and electromechanical properties of functionalized hexagonal boron nitride nanosheet: A density functional theory study. Journal of Chemical Physics, 2018, 149, 114701.	3.0	23
43	Physical and chemical effects of siliceous particles at nano, micro, and macro scales on properties of self-consolidating mortar overlays. Construction and Building Materials, 2018, 189, 1140-1154.	7.2	9
44	Rutting and fatigue performance of asphalt mixtures containing amorphous carbon as filler and binder modifier. Construction and Building Materials, 2018, 188, 905-914.	7.2	50
45	A review of the impact of micro- and nanoparticles on freeze-thaw durability of hardened concrete: Mechanism perspective. Construction and Building Materials, 2018, 186, 1105-1113.	7.2	112
46	Coupled effect of CO2 attack and tensile stress on well cement under CO2 storage conditions. Construction and Building Materials, 2017, 130, 92-102.	7.2	31
47	Fabrication of smart magnetic nanocomposite asymmetric membrane capsules for the controlled release of nitrate. Environmental Nanotechnology, Monitoring and Management, 2017, 8, 233-243.	2.9	19
48	A review of dispersion of nanoparticles in cementitious matrices: Nanoparticle geometry perspective. Construction and Building Materials, 2017, 153, 346-357.	7.2	133
49	Evaluating the effect of amorphous carbon powder on moisture susceptibility and mechanical resistance of asphalt mixtures. Construction and Building Materials, 2017, 152, 182-191.	7.2	39
50	Failure of CFRP-to-steel double strap joint bonded using carbon nanotubes modified epoxy adhesive at moderately elevated temperatures. Composites Part B: Engineering, 2016, 94, 95-101.	12.0	40
51	Incorporation of graphene oxide and silica fume into cement paste: A study of dispersion and compressive strength. Construction and Building Materials, 2016, 123, 327-335.	7.2	235
52	Agglomeration process of surfactant-dispersed carbon nanotubes in unstable dispersion: A two-stage agglomeration model and experimental evidence. Powder Technology, 2016, 301, 412-420.	4.2	37
53	Surface modification of polyurethane via creating a biocompatible superhydrophilic nanostructured layer: role of surface chemistry and structure. Journal of Experimental Nanoscience, 2016, 11, 1087-1109.	2.4	41
54	The properties of fly ash based geopolymer mortars made with dune sand. Materials and Design, 2016, 92, 571-578.	7.0	88

#	Article	IF	Citations
55	Effect of carbon nanotube modified epoxy adhesive on CFRP-to-steel interface. Composites Part B: Engineering, 2015, 79, 95-104.	12.0	70
56	Effect of ultrasonication energy on engineering properties of carbon nanotube reinforced cement pastes. Carbon, 2015, 85, 212-220.	10.3	233
57	Mechanical properties and microstructure of a graphene oxideâ€“cement composite. Cement and Concrete Composites, 2015, 58, 140-147.	10.7	623
58	Optimizing the degree of carbon nanotube dispersion in a solvent for producing reinforced epoxy matrices. Powder Technology, 2015, 284, 541-550.	4.2	37
59	Bond Characterization of Steel-CFRP with Carbon Nanotube Modified Epoxy Adhesive via Pull-off Tests. International Journal of Structural Stability and Dynamics, 2015, 15, 1540027.	2.4	8
60	Reinforcing Effects of Graphene Oxide on Portland Cement Paste. Journal of Materials in Civil Engineering, 2015, 27, .	2.9	323
61	Mechanical properties of very high strength steel at elevated temperatures. Fire Safety Journal, 2014, 64, 27-35.	3.1	55
62	Transition and Stability of Copolymer Adsorption Morphologies on the Surface of Carbon Nanotubes and Implications on Their Dispersion. Langmuir, 2014, 30, 10035-10042.	3.5	14
63	Reinforcing brittle and ductile epoxy matrices using carbon nanotubes masterbatch. Composites Part A: Applied Science and Manufacturing, 2014, 61, 126-133.	7.6	64
64	Damping and microstructure of fly ash-based geopolymers. Journal of Materials Science, 2013, 48, 3128-3137.	3.7	28
65	The role of alumina on performance of alkali-activated slag paste exposed to 50Â°C. Cement and Concrete Research, 2013, 54, 143-150.	11.0	28
66	BUCKLING BEHAVIOR OF SHORT MULTI-WALLED CARBON NANOTUBES UNDER AXIAL COMPRESSION LOADS. International Journal of Structural Stability and Dynamics, 2012, 12, 1250045.	2.4	6
67	Investigation on Buckling Behavior of Short MWCNT. Procedia Engineering, 2011, 14, 250-255.	1.2	2