

# Asghar Habibnejad Korayem

## List of Publications by Year in descending order

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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	Mechanical properties and microstructure of a graphene oxide-cement composite. <i>Cement and Concrete Composites</i> , 2015, 58, 140-147.	10.7	623
2	Reinforcing Effects of Graphene Oxide on Portland Cement Paste. <i>Journal of Materials in Civil Engineering</i> , 2015, 27, .	2.9	323
3	Design principles of ion selective nanostructured membranes for the extraction of lithium ions. <i>Nature Communications</i> , 2019, 10, 5793.	12.8	317
4	Incorporation of graphene oxide and silica fume into cement paste: A study of dispersion and compressive strength. <i>Construction and Building Materials</i> , 2016, 123, 327-335.	7.2	235
5	Effect of ultrasonication energy on engineering properties of carbon nanotube reinforced cement pastes. <i>Carbon</i> , 2015, 85, 212-220.	10.3	233
6	Lithium ion-selective membrane with 2D subnanometer channels. <i>Water Research</i> , 2019, 159, 313-323.	11.3	159
7	A review of dispersion of nanoparticles in cementitious matrices: Nanoparticle geometry perspective. <i>Construction and Building Materials</i> , 2017, 153, 346-357.	7.2	133
8	A review of the impact of micro- and nanoparticles on freeze-thaw durability of hardened concrete: Mechanism perspective. <i>Construction and Building Materials</i> , 2018, 186, 1105-1113.	7.2	112
9	A novel method to enhance the interlayer bonding of 3D printing concrete: An experimental and computational investigation. <i>Cement and Concrete Composites</i> , 2019, 99, 112-119.	10.7	101
10	The properties of fly ash based geopolymer mortars made with dune sand. <i>Materials and Design</i> , 2016, 92, 571-578.	7.0	88
11	Effect of carbon nanotube modified epoxy adhesive on CFRP-to-steel interface. <i>Composites Part B: Engineering</i> , 2015, 79, 95-104.	12.0	70
12	New molecular understanding of hydrated ion trapping mechanism during thermally-driven desalination by pervaporation using GO membrane. <i>Journal of Membrane Science</i> , 2020, 598, 117687.	8.2	65
13	Reinforcing brittle and ductile epoxy matrices using carbon nanotubes masterbatch. <i>Composites Part A: Applied Science and Manufacturing</i> , 2014, 61, 126-133.	7.6	64
14	Barriers to achieving highly dispersed graphene oxide in cementitious composites: An experimental and computational study. <i>Construction and Building Materials</i> , 2019, 199, 269-278.	7.2	60
15	Mechanical properties of very high strength steel at elevated temperatures. <i>Fire Safety Journal</i> , 2014, 64, 27-35.	3.1	55
16	The effects of graphene oxide-silica nanohybrids on the workability, hydration, and mechanical properties of Portland cement paste. <i>Construction and Building Materials</i> , 2021, 266, 121016.	7.2	52
17	Rutting and fatigue performance of asphalt mixtures containing amorphous carbon as filler and binder modifier. <i>Construction and Building Materials</i> , 2018, 188, 905-914.	7.2	50
18	Designing Angstrom-scale Asymmetric MOF-on-MOF Cavities for High Monovalent Ion Selectivity. <i>Advanced Materials</i> , 2022, 34, e2107878.	21.0	47

#	ARTICLE	IF	CITATIONS
19	Effect of chemistry and geometry of GO nanochannels on the Li ion selectivity and recovery. <i>Desalination</i> , 2020, 496, 114729.	8.2	42
20	Surface modification of polyurethane via creating a biocompatible superhydrophilic nanostructured layer: role of surface chemistry and structure. <i>Journal of Experimental Nanoscience</i> , 2016, 11, 1087-1109.	2.4	41
21	Failure of CFRP-to-steel double strap joint bonded using carbon nanotubes modified epoxy adhesive at moderately elevated temperatures. <i>Composites Part B: Engineering</i> , 2016, 94, 95-101.	12.0	40
22	Evaluating the effect of amorphous carbon powder on moisture susceptibility and mechanical resistance of asphalt mixtures. <i>Construction and Building Materials</i> , 2017, 152, 182-191.	7.2	39
23	Graphene oxide for surface treatment of concrete: A novel method to protect concrete. <i>Construction and Building Materials</i> , 2020, 243, 118229.	7.2	38
24	The effect of D-spacing on the ion selectivity performance of MXene membrane. <i>Journal of Membrane Science</i> , 2021, 639, 119752.	8.2	38
25	Optimizing the degree of carbon nanotube dispersion in a solvent for producing reinforced epoxy matrices. <i>Powder Technology</i> , 2015, 284, 541-550.	4.2	37
26	Agglomeration process of surfactant-dispersed carbon nanotubes in unstable dispersion: A two-stage agglomeration model and experimental evidence. <i>Powder Technology</i> , 2016, 301, 412-420.	4.2	37
27	Coupled effect of CO <sub>2</sub> attack and tensile stress on well cement under CO <sub>2</sub> storage conditions. <i>Construction and Building Materials</i> , 2017, 130, 92-102.	7.2	31
28	Incorporation of Natural Lithium Ion Trappers into Graphene Oxide Nanosheets. <i>Advanced Materials Technologies</i> , 2021, 6, 2000665.	5.8	30
29	Damping and microstructure of fly ash-based geopolymers. <i>Journal of Materials Science</i> , 2013, 48, 3128-3137.	3.7	28
30	The role of alumina on performance of alkali-activated slag paste exposed to 50°C. <i>Cement and Concrete Research</i> , 2013, 54, 143-150.	11.0	28
31	A comparative study on the mechanical, physical and morphological properties of cement-micro/nanoFe <sub>3</sub> O <sub>4</sub> composite. <i>Scientific Reports</i> , 2020, 10, 2859.	3.3	27
32	Tunable, Multifunctional Ceramic Composites via Intercalation of Fused Graphene Boron Nitride Nanosheets. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 8635-8644.	8.0	25
33	Insight from perfectly selective and ultrafast proton transport through anhydrous asymmetrical graphene oxide membranes under Grotthuss mechanism. <i>Journal of Membrane Science</i> , 2021, 618, 118735.	8.2	24
34	The mechanical strength of the artificial stones, containing the travertine wastes and sand. <i>Journal of Materials Research and Technology</i> , 2021, 11, 1688-1709.	5.8	24
35	Mechanical and electromechanical properties of functionalized hexagonal boron nitride nanosheet: A density functional theory study. <i>Journal of Chemical Physics</i> , 2018, 149, 114701.	3.0	23
36	Orbital Overlapping through Induction Bonding Overcomes the Intrinsic Delamination of 3D-Printed Cementitious Binders. <i>ACS Nano</i> , 2020, 14, 9466-9477.	14.6	22

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37	Fabrication of smart magnetic nanocomposite asymmetric membrane capsules for the controlled release of nitrate. <i>Environmental Nanotechnology, Monitoring and Management</i> , 2017, 8, 233-243.	2.9	19
38	Effects of Spraying Various Nanoparticles at Early Ages on Improving Surface Characteristics of Concrete Pavements. <i>International Journal of Civil Engineering</i> , 2019, 17, 1455-1468.	2.0	18
39	Integrally hydrophobic cementitious composites made with waste amorphous carbon powder. <i>Construction and Building Materials</i> , 2020, 233, 117238.	7.2	17
40	Microstructural study and surface properties of concrete pavements containing nanoparticles. <i>Construction and Building Materials</i> , 2020, 262, 120103.	7.2	17
41	Zeolitic imidazolate framework nanoleaves (ZIF-L) enhancement of strength and durability of portland cement composites. <i>Construction and Building Materials</i> , 2021, 272, 122015.	7.2	16
42	Graphene oxide in ceramic-based layered structure: Nanosheet optimization. <i>Construction and Building Materials</i> , 2019, 224, 266-275.	7.2	15
43	The halloysite nanotube effects on workability, mechanical properties, permeability and microstructure of cementitious mortar. <i>Construction and Building Materials</i> , 2021, 267, 120873.	7.2	15
44	Transition and Stability of Copolymer Adsorption Morphologies on the Surface of Carbon Nanotubes and Implications on Their Dispersion. <i>Langmuir</i> , 2014, 30, 10035-10042.	3.5	14
45	Evaluation of the dispersion of metakaolin-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?. <i>RSC Advances</i> , 2021, 11, 18623-18636.	3.6	14
46	Laboratory evaluation of stone mastic asphalt containing amorphous carbon powder as filler material. <i>Construction and Building Materials</i> , 2020, 243, 118280.	7.2	13
47	Low humid transport of anions in layered double hydroxides membranes using polydopamine coating. <i>Journal of Membrane Science</i> , 2021, 624, 118974.	8.2	13
48	Using graphene oxide to improve physical property and control ASR expansion of cement mortar. <i>Construction and Building Materials</i> , 2021, 307, 125006.	7.2	13
49	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. <i>Construction and Building Materials</i> , 2021, 270, 121462.	7.2	12
50	Aging Evaluation of Amorphous Carbon-Modified Asphalt Binders Using Rheological and Chemical Approach. <i>Journal of Materials in Civil Engineering</i> , 2020, 32, .	2.9	11
51	High-performance cement containing nanosized Fe <sub>3</sub> O <sub>4</sub> -decorated graphene oxide. <i>Construction and Building Materials</i> , 2020, 260, 120454.	7.2	11
52	Heterogeneous asymmetric passable cavities within graphene oxide nanochannels for highly efficient lithium sieving. <i>Desalination</i> , 2022, 538, 115888.	8.2	11
53	Hydrous Proton Transfer through Graphene Interlayer: An Extraordinary Mechanism under Magnifier. <i>Advanced Materials Technologies</i> , 2021, 6, 2001049.	5.8	10
54	Physical and chemical effects of siliceous particles at nano, micro, and macro scales on properties of self-consolidating mortar overlays. <i>Construction and Building Materials</i> , 2018, 189, 1140-1154.	7.2	9

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55	Investigation of ultrasonication energy effect on workability, mechanical properties and pore structure of halloysite nanotube reinforced cement mortars. <i>Construction and Building Materials</i> , 2021, 304, 124610.	7.2	9
56	Bond Characterization of Steel-CFRP with Carbon Nanotube Modified Epoxy Adhesive via Pull-off Tests. <i>International Journal of Structural Stability and Dynamics</i> , 2015, 15, 1540027.	2.4	8
57	Simultaneous effects of nanosilica and basalt fiber on mechanical properties and durability of cementitious mortar: an experimental study. <i>Canadian Journal of Civil Engineering</i> , 2021, 48, 1323-1334.	1.3	8
58	Turning two waste streams into one solution for enhancing sustainability of the built environment. <i>Resources, Conservation and Recycling</i> , 2021, 174, 105778.	10.8	8
59	Computational predictions for estimating the performance of flexural and compressive strength of epoxy resin-based artificial stones. <i>Engineering With Computers</i> , 2023, 39, 347-372.	6.1	7
60	BUCKLING BEHAVIOR OF SHORT MULTI-WALLED CARBON NANOTUBES UNDER AXIAL COMPRESSION LOADS. <i>International Journal of Structural Stability and Dynamics</i> , 2012, 12, 1250045.	2.4	6
61	Environmental and mechanical impacts of waste incinerated acidic sludge ash as filler in hot mix asphalt. <i>Case Studies in Construction Materials</i> , 2021, 14, e00504.	1.7	6
62	Mechanical hydrolysis imparts self-destruction of water molecules under steric confinement. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 5999-6008.	2.8	5
63	Evaluation of the phase composition, microstructure, mechanical performance, and resistance to acid attack of blended cement paste composed of binary trass-cement system. <i>Construction and Building Materials</i> , 2022, 333, 127356.	7.2	5
64	Bond Behavior between BFRP Rebar and Seawater Sea Sand Concrete. <i>Advances in Civil Engineering</i> , 2020, 2020, 1-10.	0.7	4
65	Dispersion stability of chitosan grafted graphene oxide nanosheets in cementitious environments and their effects on the fluidity of cement mortar nanocomposites. <i>Journal of Applied Polymer Science</i> , 2022, 139, .	2.6	3
66	Investigation on Buckling Behavior of Short MWCNT. <i>Procedia Engineering</i> , 2011, 14, 250-255.	1.2	2
67	Performance improvement of cement paste loaded with MWCNTâ€™magnetite nanocomposite. <i>Advances in Cement Research</i> , 2021, 33, 357-366.	1.6	2