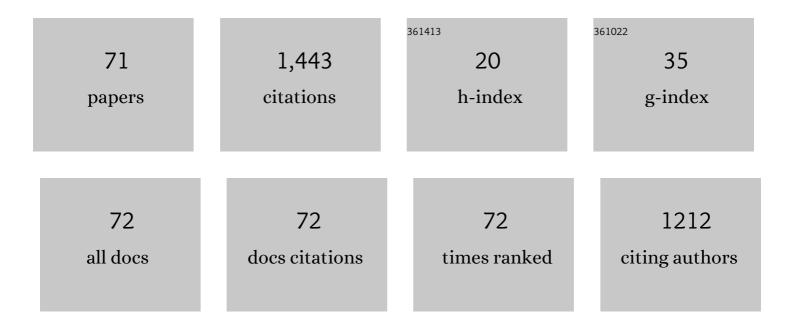
Jung-Wuk Hong

List of Publications by Year in descending order

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LUNC-WUK HONC

#	Article	IF	CITATIONS
1	Fracture simulations using edge-based smoothed finite element method for isotropic damage model via Delaunay/Voronoi dual tessellations. International Journal of Damage Mechanics, 2022, 31, 348-373.	4.2	5
2	Interdigitated Three-Dimensional Heterogeneous Nanocomposites for High-Performance Mechanochromic Smart Membranes. ACS Nano, 2022, 16, 68-77.	14.6	15
3	Simulation of structural vibrations using Voronoi-cell lattice models. Journal of Mechanical Science and Technology, 2022, 36, 647-654.	1.5	1
4	Compatible coupling of discrete elements and finite elements using Delaunay–Voronoi dual tessellations. Computational Particle Mechanics, 2022, 9, 1351-1365.	3.0	2
5	Investigation on the impact resistance of 3D printed nacre-like composites. Thin-Walled Structures, 2022, 177, 109392.	5.3	9
6	Coupling of SPH and Voronoi-cell lattice models for simulating fluid–structure interaction. Computational Particle Mechanics, 2021, 8, 813-823.	3.0	5
7	Finite Element Analysis-Based Damage Metric for Airtightness Performance Evaluation of Concrete Tube Structures. KSCE Journal of Civil Engineering, 2021, 25, 1385-1398.	1.9	1
8	Flexible Protective Film: Ultrahard, Yet Flexible Hybrid Nanocomposite Reinforced by 3D Inorganic Nanoshell Structures. Advanced Functional Materials, 2021, 31, 2010254.	14.9	19
9	SPH-Based Wave Tank Simulations. Journal of the Computational Structural Engineering Institute of Korea, 2021, 34, 59-69.	0.4	0
10	Blast Response Simulation of the Alfred Murrah Building Reinforced by Use of HPFRCC. International Journal of Concrete Structures and Materials, 2021, 15, .	3.2	3
11	Coupling of nonâ€ordinary stateâ€based peridynamics and finite element method with reduced boundary effect. International Journal for Numerical Methods in Engineering, 2021, 122, 4033-4054.	2.8	10
12	Nondimensionalized semi-empirical equation to predict secondary load cycles on vertical cylinders of different diameters. Ocean Engineering, 2021, 230, 108968.	4.3	5
13	Rationally Designed TiO ₂ Nanostructures of Continuous Pore Network for Fastâ€Responding and Highly Sensitive Acetone Sensor. Small Methods, 2021, 5, e2100941.	8.6	18
14	Collision mechanism of unmanned aerial vehicles onto glass panels. International Journal of Micro Air Vehicles, 2021, 13, 175682932110605.	1.3	2
15	Parametric studies on smoothed particle hydrodynamic simulations for accurate estimation of open surface flow force. International Journal of Naval Architecture and Ocean Engineering, 2020, 12, 85-101.	2.3	11
16	A vision-based approach for autonomous crack width measurement with flexible kernel. Automation in Construction, 2020, 110, 103019.	9.8	17
17	Detection of Micro-Cracks in Metals Using Modulation of PZT-Induced Lamb Waves. Materials, 2020, 13, 3823.	2.9	5
18	Focused Electric-Field Polymer Writing: Toward Ultralarge, Multistimuli-Responsive Membranes. ACS Nano, 2020, 14, 12173-12183.	14.6	18

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#	Article	IF	CITATIONS
19	Influence of Zinc Content on the Mechanical Behaviors of Cu-Zn Alloys by Molecular Dynamics. Materials, 2020, 13, 2062.	2.9	5
20	A Semi-Infinite Numerical Wave Tank Using Discrete Particle Simulations. Journal of Marine Science and Engineering, 2020, 8, 159.	2.6	6
21	Irregular lattice model for geometrically nonlinear dynamics of structures. Mechanics Research Communications, 2020, 107, 103554.	1.8	7
22	Impact resistance of nacre-like composites diversely patterned by 3D printing. Composite Structures, 2020, 238, 111951.	5.8	44
23	High ontrast Optical Modulation from Strainâ€Induced Nanogaps at 3D Heterogeneous Interfaces. Advanced Science, 2020, 7, 1903708.	11.2	36
24	Comparative study on the breaking waves by a piston-type wavemaker in experiments and SPH simulations. Coastal Engineering Journal, 2020, 62, 267-284.	1.9	11
25	Effect of Crack Closure on Magnitude of Modulated Wave. International Journal of Structural Stability and Dynamics, 2020, 20, 2041018.	2.4	0
26	Study on effect of laser-induced ablation for Lamb waves in a thin plate. Ultrasonics, 2019, 91, 121-128.	3.9	17
27	Unmanned Aerial Vehicle Impacts on Heat-Strengthened Glass. IEEE Access, 2019, 7, 104269-104278.	4.2	4
28	Experimental and Numerical Investigations of High-Speed Projectile Impacts on 7075-T651 Aluminum Plates. Materials, 2019, 12, 2736.	2.9	6
29	Investigation on the resistance of steel-plate concrete walls under high-velocity impact. Journal of Constructional Steel Research, 2019, 162, 105732.	3.9	7
30	Micro-crack detection with nonlinear wave modulation technique and its application to loaded cracks. NDT and E International, 2019, 107, 102132.	3.7	20
31	Morphological aspects of crack growth in rock materials with various flaws. International Journal for Numerical and Analytical Methods in Geomechanics, 2019, 43, 1854-1866.	3.3	15
32	Xâ€Ray Computed Microtomography Imaging of Abiotic Carbonate Precipitation in Porous Media From a Supersaturated Solution: Insights Into Effect of CO ₂ Mineral Trapping on Permeability. Water Resources Research, 2019, 55, 3835-3855.	4.2	16
33	Bio-inspired bimaterial composites patterned using three-dimensional printing. Composites Part B: Engineering, 2019, 165, 594-603.	12.0	52
34	Finite element analysis for the evaluation of the low-velocity impact response of a composite plate. Advanced Composite Materials, 2019, 28, 271-285.	1.9	23
35	Molecular dynamics evaluation of the effects of zinc on the mechanical properties of aluminum alloys. Computational Materials Science, 2019, 159, 66-72.	3.0	3
36	Numerical Computation of Hydraulic Conductivity of Sand Using X-ray Microtomography Imaging of a Pore Structure. Korean Society of Hazard Mitigation, 2019, 19, 187-192.	0.2	0

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37	Effective numerical approach to assess low-cycle fatigue behavior of pipe elbows. Nuclear Engineering and Technology, 2018, 50, 758-766.	2.3	9
38	Development of a Mole-Like Drilling Robot System for Shallow Drilling. IEEE Access, 2018, 6, 76454-76463.	4.2	5
39	Multifunctional Polymer Nanocomposites Reinforced by 3D Continuous Ceramic Nanofillers. ACS Nano, 2018, 12, 9126-9133.	14.6	44
40	Parallel programming of a peridynamics code coupled with finite element method. International Journal of Fracture, 2017, 203, 99-114.	2.2	28
41	The mechanism of fracture coalescence in pre-cracked rock-type material with three flaws. Engineering Geology, 2017, 223, 31-47.	6.3	49
42	Parallelization of a finite element Fortran code using OpenMP library. Advances in Engineering Software, 2017, 104, 28-37.	3.8	11
43	Hygroscopic effects on the penetration-resistance behavior of a specially-orthotropic CFRP composite plates. Composite Structures, 2017, 176, 1073-1080.	5.8	13
44	Review of analytical and empirical estimations for incident blast pressure. KSCE Journal of Civil Engineering, 2017, 21, 2211-2225.	1.9	45
45	Periodic nonlinear waves resulting from the contact interaction of a crack. Journal of Applied Physics, 2017, 122, 124303.	2.5	5
46	Effect of second hardening on floor response spectrum of a base-isolated nuclear power plant. Nuclear Engineering and Design, 2017, 322, 138-147.	1.7	19
47	Crack coalescence morphology in rock-like material under compression. International Journal of Fracture, 2017, 203, 211-236.	2.2	37
48	Estimation of viscoelastic parameters in Prony series from shear wave propagation. Journal of Applied Physics, 2016, 119, .	2.5	4
49	Dynamic crack branching and curving in brittle polymers. International Journal of Solids and Structures, 2016, 100-101, 332-340.	2.7	16
50	Hygro effects on the low-velocity impact behavior of unidirectional CFRP composite plates for aircraft applications. Composite Structures, 2016, 135, 276-285.	5.8	56
51	Impact fracture analysis enhanced by contact of peridynamic and finite element formulations. International Journal of Impact Engineering, 2016, 87, 108-119.	5.0	55
52	An electromechanical impedance-based method for tensile force estimation and damage diagnosis of post-tensioning systems. Smart Structures and Systems, 2016, 17, 107-122.	1.9	24
53	Fracturing patterns of rock-like materials in compression captured with peridynamics. Engineering Fracture Mechanics, 2015, 144, 176-193.	4.3	93
54	Modeling of three-dimensional Lamb wave propagation excited by laser pulses. Ultrasonics, 2015, 55, 113-122.	3.9	16

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55	The effects of stacking sequence on the penetration-resistant behaviors of T800 carbon fiber composite plates under low-velocity impact loading. Carbon Letters, 2015, 16, 107-115.	5.9	20
56	Mechanical impedance measurement and damage detection using noncontact laser ultrasound. Optics Letters, 2014, 39, 3130.	3.3	2
57	Post-buckling analysis of space frames using concept of hybrid arc-length methods. International Journal of Non-Linear Mechanics, 2014, 58, 76-88.	2.6	10
58	Advanced aircraft analysis of an F-4 Phantom on a reinforced concrete building. Nuclear Engineering and Design, 2014, 273, 505-528.	1.7	23
59	Analysis of impact of large commercial aircraft on a prestressed containment building. Nuclear Engineering and Design, 2013, 265, 431-449.	1.7	37
60	Longitudinal differences in the mechanical properties of the thoracic aorta depend on circumferential regions. Journal of Biomedical Materials Research - Part A, 2013, 101A, 1525-1529.	4.0	19
61	Finite element simulation of guided waves generated by laser pulses. Proceedings of SPIE, 2012, , .	0.8	2
62	A coupling approach of discretized peridynamics with finite element method. Computer Methods in Applied Mechanics and Engineering, 2012, 245-246, 163-175.	6.6	151
63	Analysis of transmitted ultrasound signals through apples at different storage times using the continuous wavelet transformation. International Journal of Precision Engineering and Manufacturing, 2012, 13, 1949-1954.	2.2	6
64	Discretized peridynamics for linear elastic solids. Computational Mechanics, 2012, 50, 579-590.	4.0	70
65	Discretized peridynamics for brittle and ductile solids. International Journal for Numerical Methods in Engineering, 2012, 89, 1028-1046.	2.8	44
66	Parameter estimation for wavelet transformed ultrasonic signals. NDT and E International, 2011, 44, 32-40.	3.7	9
67	Time Reversal Based Piezoelectric Transducer Self-diagnosis Under Varying Temperature. Journal of Nondestructive Evaluation, 2010, 29, 75-91.	2.4	40
68	Applications of an Instantaneous Damage Detection Technique toÂPlates with Additional Complexities. Journal of Nondestructive Evaluation, 2010, 29, 189-205.	2.4	16
69	Characterization of wavelet coefficients for ultrasonic signals. Journal of Applied Physics, 2010, 107, 114909.	2.5	10
70	Coupling and enrichment schemes for finite element and finite sphere discretizations. Computers and Structures, 2005, 83, 1386-1395.	4.4	26
71	On the Reliable Solution of Contact Problems in Engineering Design. International Journal of Mechanics and Materials in Design, 2004, 1, 3-16.	3.0	11