

# Goangseup Zi

## List of Publications by Year in descending order

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110  
papers

8,405  
citations

71004

43  
h-index

51423

90  
g-index

112  
all docs

112  
docs citations

112  
times ranked

7898  
citing authors

#	ARTICLE	IF	CITATIONS
1	Stretchable array of CdSe/ZnS quantum-dot light emitting diodes for visual display of bio-signals. Chemical Engineering Journal, 2022, 427, 130858.	6.6	27
2	Development of Open-Assistant Environment for Integrated Operation of 3D Bridge Model and Engineering Document Information. Applied Sciences (Switzerland), 2022, 12, 2510.	1.3	0
3	Effect of Si/Al molar ratio on the strength behavior of geopolymer derived from various industrial waste: A current state of the art review. Construction and Building Materials, 2022, 329, 127134.	3.2	19
4	Utilization of liquid crystal display (LCD) glass waste in concrete: A review. Cement and Concrete Composites, 2022, 130, 104542.	4.6	13
5	Influence of liquid crystal display glass powder on the tensile performance of ultra-high-performance fiber-reinforced concrete. Journal of Building Engineering, 2022, 57, 104901.	1.6	2
6	Alkali-silica reaction and strength of concrete with pretreated glass particles as fine aggregates. Construction and Building Materials, 2021, 271, 121809.	3.2	18
7	Effects of waste liquidâ€“crystal display glass powder and fiber geometry on the mechanical properties of ultra-high-performance concrete. Construction and Building Materials, 2021, 266, 120938.	3.2	19
8	Performance of glass-blended cement produced by intergrinding and separate grinding methods. Cement and Concrete Composites, 2021, 118, 103937.	4.6	9
9	A Fractal-designed stretchable and transparent microsupercapacitor as a Skin-attachable energy storage device. Chemical Engineering Journal, 2020, 387, 124076.	6.6	58
10	Utilisation of coarse glass powder as pozzolanic cementâ€™A mix design investigation. Construction and Building Materials, 2020, 240, 117916.	3.2	30
11	Influence of Carbon Fiber Incorporation on Electrical Conductivity of Cement Composites. Applied Sciences (Switzerland), 2020, 10, 8993.	1.3	8
12	Chemo-Mechanical Model for the Expansion of Concrete Due to Alkali Silica Reaction. Applied Sciences (Switzerland), 2020, 10, 3807.	1.3	5
13	Mechanical Behavior of Coupled Elastoplastic Damage of Clastic Sandstone of Different Burial Depths. Energies, 2020, 13, 1640.	1.6	5
14	Layer-by-Layer Assembly of Polyaniline Nanofibers and MXene Thin-Film Electrodes for Electrochemical Energy Storage. ACS Applied Materials & Interfaces, 2019, 11, 47929-47938.	4.0	38
15	Highâ€“Sensitivity, Skinâ€“Attachable, and Stretchable Array of Thermoâ€“Responsive Suspended Gate Fieldâ€“Effect Transistors with ThermoChromic Display. Advanced Functional Materials, 2019, 29, 1807679.	7.8	47
16	Effects of carbon nanomaterial type and amount on self-sensing capacity of cement paste. Measurement: Journal of the International Measurement Confederation, 2019, 134, 750-761.	2.5	64
17	A simplified probabilistic model for the combined action of carbonation and chloride ingress. Magazine of Concrete Research, 2019, 71, 327-340.	0.9	7
18	Probabilistic model forecasting for rail wear in seoul metro based on bayesian theory. Engineering Failure Analysis, 2019, 96, 202-210.	1.8	12

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19	Low power stretchable active-matrix red, green, blue (RGB) electrochromic device array of poly(3-methylthiophene)/Prussian blue. <i>Applied Surface Science</i> , 2019, 471, 300-308.	3.1	44
20	Durability of Concrete Containing Liquid Crystal Display Glass Powder for Pavement. <i>ACI Materials Journal</i> , 2019, 116, .	0.3	5
21	Numerical Evaluation of Compressive Strain Capacity for API X100 Line Pipe. <i>KSCE Journal of Civil Engineering</i> , 2018, 22, 3039-3051.	0.9	1
22	Design Approach for Improving Current Concrete Median Barriers on Highways in South Korea. <i>Journal of Performance of Constructed Facilities</i> , 2018, 32, .	1.0	7
23	New kinematical constraints of cracked MITC4 shell elements based on the phantom-node method for fracture analysis. <i>Engineering Fracture Mechanics</i> , 2018, 199, 159-178.	2.0	4
24	Stretchable array of high-performance micro-supercapacitors charged with solar cells for wireless powering of an integrated strain sensor. <i>Nano Energy</i> , 2018, 49, 644-654.	8.2	146
25	A 2D mechano-chemical model for the simulation of reinforcement corrosion and concrete damage. <i>Construction and Building Materials</i> , 2017, 137, 330-344.	3.2	46
26	Numerical Simulation on Concrete Median Barrier for Reducing Concrete Fragment Under Harsh Impact Loading of a 25-ton Truck. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2017, 139, .	0.8	13
27	Biaxial Stretchability and Transparency of Ag Nanowire 2D Mass-Spring Networks Prepared by Floating Compression. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 10865-10873.	4.0	39
28	Polyurethane foam coated with a multi-walled carbon nanotube/polyaniline nanocomposite for a skin-like stretchable array of multi-functional sensors. <i>NPG Asia Materials</i> , 2017, 9, e448-e448.	3.8	90
29	Electrical and Self-Sensing Properties of Ultra-High-Performance Fiber-Reinforced Concrete with Carbon Nanotubes. <i>Sensors</i> , 2017, 17, 2481.	2.1	93
30	Experimental Investigation of the Piezoresistive Properties of Cement Composites with Hybrid Carbon Fibers and Nanotubes. <i>Sensors</i> , 2017, 17, 2516.	2.1	80
31	Measurement of Water Absorption of Very Fine Particles Using Electrical Resistivity. <i>ACI Materials Journal</i> , 2017, 114, .	0.3	3
32	Comparative Biaxial Flexural Behavior of Ultra-High-Performance Fiber-Reinforced Concrete Panels Using Two Different Test and Placement Methods. <i>Journal of Testing and Evaluation</i> , 2017, 45, 624-641.	0.4	9
33	Probabilistic analysis of reinforcement corrosion due to the combined action of carbonation and chloride ingress in concrete. <i>Construction and Building Materials</i> , 2016, 124, 667-680.	3.2	47
34	Stretchable Active Matrix Temperature Sensor Array of Polyaniline Nanofibers for Electronic Skin. <i>Advanced Materials</i> , 2016, 28, 930-935.	11.1	364
35	Encapsulated, High-Performance, Stretchable Array of Stacked Planar Micro-Supercapacitors as Waterproof Wearable Energy Storage Devices. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 16016-16025.	4.0	112
36	Body-Attachable and Stretchable Multisensors Integrated with Wirelessly Rechargeable Energy Storage Devices. <i>Advanced Materials</i> , 2016, 28, 748-756.	11.1	129

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37	Stretchable patterned graphene gas sensor driven by integrated micro-supercapacitor array. Nano Energy, 2016, 19, 401-414.	8.2	179
38	Probabilistic fatigue integrity assessment in multiple crack growth analysis associated with equivalent initial flaw and material variability. Engineering Fracture Mechanics, 2016, 156, 182-196.	2.0	29
39	Combined effect of carbonation and chloride ingress in concrete. Construction and Building Materials, 2016, 110, 369-380.	3.2	107
40	Parametric Analysis for the Simultaneous Carbonation and Chloride Ion Penetration in Reinforced Concrete Sections. Journal of the Korea Institute for Structural Maintenance Inspection, 2016, 20, 66-74.	0.1	2
41	Pozzolanic reaction of the waste glass sludge incorporating precipitation additives. Computers and Concrete, 2016, 17, 255-269.	0.7	11
42	Probabilistic prognosis of fatigue crack growth for asphalt concretes. Engineering Fracture Mechanics, 2015, 141, 212-229.	2.0	28
43	Effect of shrinkage-reducing admixture on biaxial flexural behavior of ultra-high-performance fiber-reinforced concrete. Construction and Building Materials, 2015, 89, 67-75.	3.2	39
44	Stretchable Array of Highly Sensitive Pressure Sensors Consisting of Polyaniline Nanofibers and Au-Coated Polydimethylsiloxane Micropillars. ACS Nano, 2015, 9, 9974-9985.	7.3	361
45	Probabilistic multiconstraints optimization of cooling channels in ceramic matrix composites. Composites Part B: Engineering, 2015, 81, 107-119.	5.9	23
46	Experimental test and seismic performance of partial precast concrete segmental bridge column with cast-in-place base. Engineering Structures, 2015, 100, 178-188.	2.6	33
47	Biaxial flexural behavior of ultra-high-performance fiber-reinforced concrete with different fiber lengths and placement methods. Cement and Concrete Composites, 2015, 63, 51-66.	4.6	114
48	Investigating the flexural resistance of fiber reinforced cementitious composites under biaxial condition. Composite Structures, 2015, 122, 198-208.	3.1	31
49	Waste glass sludge as a partial cement replacement in mortar. Construction and Building Materials, 2015, 75, 242-246.	3.2	75
50	Interfacial shear stress optimization in sandwich beams with polymeric core using non-uniform distribution of reinforcing ingredients. Composite Structures, 2015, 120, 221-230.	3.1	25
51	A meshless adaptive multiscale method for fracture. Computational Materials Science, 2015, 96, 382-395.	1.4	71
52	A three dimensional extended Arlequin method for dynamic fracture. Computational Materials Science, 2015, 96, 425-431.	1.4	17
53	Computational Methods for Fracture. Mathematical Problems in Engineering, 2014, 2014, 1-2.	0.6	2
54	Fabrication of Stretchable Single-Walled Carbon Nanotube Logic Devices. Small, 2014, 10, 2910-2917.	5.2	9

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55	Design and Fabrication of Novel Stretchable Device Arrays on a Deformable Polymer Substrate with Embedded Liquidâ€Metal Interconnections. <i>Advanced Materials</i> , 2014, 26, 6580-6586.	11.1	88
56	Fracture and Size Effect on Strength of Plain Concrete Disks under Biaxial Flexure Analyzed by Microplane Model M7. <i>Journal of Engineering Mechanics - ASCE</i> , 2014, 140, 604-613.	1.6	12
57	Asymmetric vibration of finger-type bridge expansion joint for design consideration. <i>Engineering Structures</i> , 2014, 70, 53-62.	2.6	8
58	Biaxially Stretchable, Integrated Array of High Performance Microsupercapacitors. <i>ACS Nano</i> , 2014, 8, 11639-11650.	7.3	143
59	Influence of fiber reinforcement on strength and toughness of all-lightweight concrete. <i>Construction and Building Materials</i> , 2014, 69, 381-389.	3.2	55
60	Durability properties of a concrete with waste glass sludge exposed to freeze-and-thaw condition and de-icing salt. <i>Construction and Building Materials</i> , 2014, 66, 398-402.	3.2	69
61	High-Density, Stretchable, All-Solid-State Microsupercapacitor Arrays. <i>ACS Nano</i> , 2014, 8, 8844-8855.	7.3	96
62	Size Effect on Biaxial Flexural Strength of Concrete. <i>ACI Materials Journal</i> , 2014, 111, .	0.3	10
63	Fatigue life prediction methodology using entropy index of stress interaction and crack severity index of effective stress. <i>International Journal of Damage Mechanics</i> , 2013, 22, 375-392.	2.4	26
64	Improvement of the biaxial flexure test method for concrete. <i>Cement and Concrete Composites</i> , 2013, 37, 154-160.	4.6	34
65	Flexural fatigue behaviour of concrete under uniaxial and biaxial stress. <i>Magazine of Concrete Research</i> , 2013, 65, 757-764.	0.9	13
66	High performance stretchable UV sensor arrays of SnO <sub>2</sub> nanowires. <i>Nanotechnology</i> , 2013, 24, 315502.	1.3	39
67	A Simple Circular Cell Method for Multilevel Finite Element Analysis. <i>Journal of Applied Mathematics</i> , 2012, 2012, 1-15.	0.4	20
68	Biaxial flexural strength of concrete by two different methods. <i>Magazine of Concrete Research</i> , 2012, 64, 1057-1065.	0.9	14
69	Investigation of a concrete railway sleeper failed by ice expansion. <i>Engineering Failure Analysis</i> , 2012, 26, 151-163.	1.8	21
70	Phantom-node method for shell models with arbitrary cracks. <i>Computers and Structures</i> , 2012, 92-93, 242-256.	2.4	232
71	SnO <sub>2</sub> Nanowire Logic Devices on Deformable Nonplanar Substrates. <i>ACS Nano</i> , 2011, 5, 10009-10016.	7.3	31
72	Development of an Evaluation Method for the Compressive-Bending Plastic Buckling Capacity of Pipeline Steel Tube Based on Strain-Based Design N Structural Engineering and Construction. <i>Procedia Engineering</i> , 2011, 14, 312-317.	1.2	2

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73	Fatigue life prediction of multiple site damage based on probabilistic equivalent initial flaw model. Structural Engineering and Mechanics, 2011, 38, 443-457.	1.0	15
74	Modeling the viscoelastic function of asphalt concrete using a spectrum method. Mechanics of Time-Dependent Materials, 2010, 14, 191-202.	2.3	27
75	A simple and robust three-dimensional cracking-particle method without enrichment. Computer Methods in Applied Mechanics and Engineering, 2010, 199, 2437-2455.	3.4	725
76	On three-dimensional modelling of crack growth using partition of unity methods. Computers and Structures, 2010, 88, 1391-1411.	2.4	311
77	On strain change of prestressing strand during detensioning procedures. Engineering Structures, 2010, 32, 2570-2578.	2.6	10
78	Flexural Characteristics of Concrete Beams Reinforced with a New Type of GFRP Bar. Polymers and Polymer Composites, 2009, 17, 253-264.	1.0	5
79	Fatigue behavior of the foam-filled GFRP bridge deck. Composites Part B: Engineering, 2009, 40, 141-148.	5.9	21
80	Application of Generalized $J$ -Integral to Crack Propagation Modeling of Asphalt Concrete Under Repeated Loading. Transportation Research Record, 2009, 2127, 72-81.	1.0	47
81	A new crack tip element for the phantom node method with arbitrary cohesive cracks. International Journal for Numerical Methods in Engineering, 2008, 75, 577-599.	1.5	210
82	An experimental study on static behavior of a GFRP bridge deck filled with a polyurethane foam. Composite Structures, 2008, 82, 257-268.	3.1	60
83	The static behavior of a modular foam-filled GFRP bridge deck with a strong web-flange joint. Composite Structures, 2008, 85, 155-163.	3.1	25
84	A novel indirect tensile test method to measure the biaxial tensile strength of concretes and other quasibrittle materials. Cement and Concrete Research, 2008, 38, 751-756.	4.6	36
85	Three-dimensional crack initiation, propagation, branching and junction in non-linear materials by an extended meshfree method without asymptotic enrichment. Engineering Fracture Mechanics, 2008, 75, 943-960.	2.0	314
86	A geometrically non-linear three-dimensional cohesive crack method for reinforced concrete structures. Engineering Fracture Mechanics, 2008, 75, 4740-4758.	2.0	272
87	A successive LCC model development of marine RC structures exposed to chloride attack using a Bayesian approach. , 2008, , 863-869.		0
88	Three-dimensional non-linear fracture mechanics by enriched meshfree methods without asymptotic enrichment. IUTAM Symposium on Cellular, Molecular and Tissue Mechanics, 2007, , 21-36.	0.1	5
89	A Meshfree Method based on the Local Partition of Unity for Cohesive Cracks. Computational Mechanics, 2007, 39, 743-760.	2.2	272
90	Extended meshfree methods without branch enrichment for cohesive cracks. Computational Mechanics, 2007, 40, 367-382.	2.2	169

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91	A three-dimensional meshfree method for continuous multiple-crack initiation, propagation and junction in statics and dynamics. <i>Computational Mechanics</i> , 2007, 40, 473-495.	2.2	312
92	Evaluation of earthquake deformation and performance for RC bridge piers. <i>Engineering Structures</i> , 2005, 27, 1451-1464.	2.6	21
93	The Extended Finite Element Method for Dynamic Fractures. <i>Shock and Vibration</i> , 2005, 12, 9-23.	0.3	54
94	A method for multiple crack growth in brittle materials without remeshing. <i>International Journal for Numerical Methods in Engineering</i> , 2004, 61, 1741-1770.	1.5	204
95	Combined extended and superimposed finite element method for cracks. <i>International Journal for Numerical Methods in Engineering</i> , 2004, 59, 1119-1136.	1.5	65
96	A method for growing multiple cracks without remeshing and its application to fatigue crack growth. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2004, 12, 901-915.	0.8	92
97	Asymptotic stress intensity factor density profiles for smeared-tip method for cohesive fracture. <i>International Journal of Fracture</i> , 2003, 119, 145-159.	1.1	11
98	Microplane constitutive model for porous isotropic rocks. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2003, 27, 25-47.	1.7	34
99	New crack-tip elements for XFEM and applications to cohesive cracks. <i>International Journal for Numerical Methods in Engineering</i> , 2003, 57, 2221-2240.	1.5	455
100	Dynamic crack propagation based on loss of hyperbolicity and a new discontinuous enrichment. <i>International Journal for Numerical Methods in Engineering</i> , 2003, 58, 1873-1905.	1.5	470
101	Size effect and asymptotic matching analysis of fracture of closed-cell polymeric foam. <i>International Journal of Solids and Structures</i> , 2003, 40, 7197-7217.	1.3	36
102	Eigenvalue method for computing size effect of cohesive cracks with residual stress, with application to kink-bands in composites. <i>International Journal of Engineering Science</i> , 2003, 41, 1519-1534.	2.7	30
103	Size effect law and fracture mechanics of the triggering of dry snow slab avalanches. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	75
104	Decontamination of Radionuclides from Concrete by Microwave Heating. II: Computations. <i>Journal of Engineering Mechanics - ASCE</i> , 2003, 129, 785-792.	1.6	19
105	Decontamination of Radionuclides from Concrete by Microwave Heating. I: Theory. <i>Journal of Engineering Mechanics - ASCE</i> , 2003, 129, 777-784.	1.6	34
106	Continuous Relaxation Spectrum for Concrete Creep and its Incorporation into Microplane Model M4. <i>Journal of Engineering Mechanics - ASCE</i> , 2002, 128, 1331-1336.	1.6	22
107	Choice of standard fracture test for concrete and its statistical evaluation. <i>International Journal of Fracture</i> , 2002, 118, 303-337.	1.1	57
108	Fracture Mechanics of ASR in Concretes with Waste Glass Particles of Different Sizes. <i>Journal of Engineering Mechanics - ASCE</i> , 2000, 126, 226-232.	1.6	118

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109	Size effect on compression strength of fiber composites failing by kink band propagation. International Journal of Fracture, 1999, 95, 103-141.	1.1	84
110	A Novel Method of Crushing Glass Aggregates to Reduce the Alkali-Silica Reaction. KSCE Journal of Civil Engineering, 0, , 1.	0.9	0