

# Young-Jin Kim

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

47  
papers

8,234  
citations

17  
h-index

50  
g-index

50  
ext. papers

8,820  
ext. citations

4.1  
avg, IF

4.99  
L-index

#	Paper	IF	Citations
47	Roll-to-roll production of 30-inch graphene films for transparent electrodes. <i>Nature Nanotechnology</i> , <b>2010</b> , 5, 574-8	28.7	6507
46	Highly conductive, printable and stretchable composite films of carbon nanotubes and silver. <i>Nature Nanotechnology</i> , <b>2010</b> , 5, 853-7	28.7	682
45	High-performance graphene-based transparent flexible heaters. <i>Nano Letters</i> , <b>2011</b> , 11, 5154-8	11.5	396
44	Finite element based plastic limit loads for cylinders with part-through surface cracks under combined loading. <i>International Journal of Pressure Vessels and Piping</i> , <b>2003</b> , 80, 527-540	2.4	70
43	Plastic limit pressures for cracked pipes using finite element limit analyses. <i>International Journal of Pressure Vessels and Piping</i> , <b>2002</b> , 79, 321-330	2.4	60
42	Functionalized nano-silver particles assembled on one-dimensional nanotube scaffolds for ultra-highly conductive silver/polymer composites. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 3579		53
41	Elastic-plastic fracture mechanics method for finite internal axial surface cracks in cylinders. <i>Engineering Fracture Mechanics</i> , <b>2004</b> , 71, 925-944	4.2	45
40	Non-linear fracture mechanics analyses of part circumferential surface cracked pipes. <i>International Journal of Fracture</i> , <b>2002</b> , 116, 347-375	2.3	40
39	Optical detection of DNA hybridization using absorption spectra of single-walled carbon nanotubes. <i>Materials Chemistry and Physics</i> , <b>2008</b> , 112, 738-741	4.4	36
38	The DNA hybridization assay using single-walled carbon nanotubes as ultrasensitive, long-term optical labels. <i>Nanotechnology</i> , <b>2006</b> , 17, 3442-5	3.4	32
37	Quantification of pressure-induced hoop stress effect on fracture analysis of circumferential through-wall cracked pipes. <i>Engineering Fracture Mechanics</i> , <b>2002</b> , 69, 1249-1267	4.2	31
36	Reference stress based elastic-plastic fracture analysis for circumferential through-wall cracked pipes under combined tension and bending. <i>Engineering Fracture Mechanics</i> , <b>2002</b> , 69, 367-388	4.2	27
35	Elastic-plastic J and COD estimates for axial through-wall cracked pipes. <i>International Journal of Pressure Vessels and Piping</i> , <b>2002</b> , 79, 451-464	2.4	26
34	Engineering C-integral estimates for generalised creep behaviour and finite element validation. <i>International Journal of Pressure Vessels and Piping</i> , <b>2002</b> , 79, 427-443	2.4	25
33	Reference Stress Based Approach to Predict Failure Strength of Pipes With Local Wall Thinning Under Single Loading. <i>Journal of Pressure Vessel Technology, Transactions of the ASME</i> , <b>2004</b> , 126, 194-201 <sup>2</sup>		23
32	The quantitative characterization of the dispersion state of single-walled carbon nanotubes using Raman spectroscopy and atomic force microscopy. <i>Carbon</i> , <b>2008</b> , 46, 1530-1534	10.4	21
31	Crack opening analysis of complex cracked pipes. <i>International Journal of Fracture</i> , <b>2001</b> , 111, 71-86	2.3	18

30	Reference Stress Based Approach to Predict Failure Strength of Pipes With Local Wall Thinning Under Combined Loading. <i>Journal of Pressure Vessel Technology, Transactions of the ASME</i> , <b>2005</b> , 127, 76-83	1.2	15
29	Effect of biaxial loads on elastic-plastic J and crack tip constraint for cracked plates: finite element study. <i>International Journal of Fracture</i> , <b>2004</b> , 130, 803-825	2.3	13
28	Determination of failure pressure for tubes with two non-aligned axial through-wall cracks. <i>International Journal of Fracture</i> , <b>2007</b> , 144, 91-101	2.3	11
27	Elastic-plastic fracture mechanics assessment for steam generator tubes with through-wall cracks. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2007</b> , 30, 131-142	3	10
26	Enhanced bioreaction efficiency of a microfluidic mixer toward high-throughput and low-cost bioassays. <i>Microfluidics and Nanofluidics</i> , <b>2012</b> , 12, 143-156	2.8	9
25	Restraining effect of support plates on the limit loads for circumferential cracks in the steam generator tube. <i>Nuclear Engineering and Design</i> , <b>2008</b> , 238, 135-142	1.8	9
24	Resonant behavior and microfluidic manipulation of silicone cilia due to an added mass effect. <i>Soft Matter</i> , <b>2011</b> , 7, 4325	3.6	7
23	Transparent conductive film fabrication using intercalating silver nanoparticles within carbon nanotube layers. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2011</b> , 11, 489-93	1.3	7
22	Elastic-plastic fracture mechanics assessment of test data for circumferential cracked pipes. <i>Engineering Fracture Mechanics</i> , <b>2004</b> , 71, 173-191	4.2	7
21	Enhancement of J estimation for typical nuclear pipes with a circumferential surface crack under tensile load. <i>Journal of Mechanical Science and Technology</i> , <b>2010</b> , 24, 681-686	1.6	6
20	Approximate elastic-plastic J estimates of cylinders with off-centred circumferential through-wall cracks. <i>Engineering Fracture Mechanics</i> , <b>2004</b> , 71, 1673-1693	4.2	6
19	Integrity evaluation system of CANDU reactor pressure tube. <i>Journal of Mechanical Science and Technology</i> , <b>2003</b> , 17, 947-957		6
18	Numerical calculation of energy release rates by virtual crack closure technique. <i>Journal of Mechanical Science and Technology</i> , <b>2004</b> , 18, 1996-2008		5
17	Engineering J Estimation Methods for Leak-Before-Break Analyses of Nuclear Piping. <i>JSME International Journal Series A-Solid Mechanics and Material Engineering</i> , <b>2005</b> , 48, 41-50		5
16	Evaluation of slant crack propagation under RCF in railway rail. <i>Journal of Mechanical Science and Technology</i> , <b>2011</b> , 25, 1215-1220	1.6	4
15	A Finite Element Study on the Integrity Evaluation Method of Subclad Cracks Under Pressurized Thermal Shock Transients. <i>Journal of Pressure Vessel Technology, Transactions of the ASME</i> , <b>2003</b> , 125, 46-51	1.2	4
14	Parametric study on the fatigue life of railways under rolling contact fatigue by three-dimensional numerical analysis. <i>Journal of Mechanical Science and Technology</i> , <b>2012</b> , 26, 359-365	1.6	3
13	Correction of constraint loss in fracture toughness measurement of PCVN specimens based on fracture toughness diagram. <i>Journal of Mechanical Science and Technology</i> , <b>2010</b> , 24, 687-692	1.6	3

12	Reference stress based fracture mechanics analysis for circumferential through-wall cracked pipes: experimental validation. <i>Nuclear Engineering and Design</i> , <b>2003</b> , 226, 83-96	1.8	3
11	Engineering Leak-Before-Break Analyses of Pressurized Piping: Part I- Crack Opening Displacement. <i>JSME International Journal Series A-Solid Mechanics and Material Engineering</i> , <b>2004</b> , 47, 591-599		3
10	Design of Nanodiamond Based Drug Delivery Patch for Cancer Therapeutics and Imaging Applications <b>2010</b> , 249-284		2
9	An immunoassay using biotinylated single-walled carbon nanotubes as Raman biomarkers. <i>Analyst, The</i> , <b>2009</b> , 134, 1294-6	5	2
8	Development of an Integrity Evaluation System for Nuclear Power Plants. <i>JSME International Journal Series C-Mechanical Systems Machine Elements and Manufacturing</i> , <b>2003</b> , 46, 1464-1472		1
7	Development of cleavage fracture toughness locus considering constraint effects. <i>Journal of Mechanical Science and Technology</i> , <b>2004</b> , 18, 2158		1
6	Approximate Elastic-Plastic J Estimate of Cylinders With Off-Centered Circumferential Through-Wall Cracks <b>2003</b> , 51		
5	Parallel process system and its application to steam generator structural analysis. <i>Journal of Mechanical Science and Technology</i> , <b>2005</b> , 19, 2007-2015	1.6	
4	Elastic-plastic Fracture Mechanics Analyses for Burst Pressure Prediction of Through-wall Cracked Tubes. <i>Transactions of the Korean Society of Mechanical Engineers, A</i> , <b>2005</b> , 29, 1361-1368		1
3	Structural Integrity Evaluation of SG Tube with Surface Wear-type Defects. <i>Transactions of the Korean Society of Mechanical Engineers, A</i> , <b>2006</b> , 30, 1618-1625		1
2	ICONE15-10428 INTEGRITY ASSESSMENT OF STEAM GENERATOR TUBES BASED ON ELASTIC-PLASTIC FRACTURE MECHANICS CONCEPT. <i>The Proceedings of the International Conference on Nuclear Engineering (ICONE)</i> , <b>2007</b> , 2007.15, _ICONE1510-_ICONE1510		0.1
1	Restrained Bending Effect by the Support Plate on the Steam Generator Tube with Circumferential Cracks. <i>Transactions of the Korean Society of Mechanical Engineers, A</i> , <b>2007</b> , 31, 277-284		1