

Young-Jin Kim

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

9,272
citations

471509

17
h-index

265206

42
g-index

50
all docs

50
docs citations

50
times ranked

14639
citing authors

#	ARTICLE	IF	CITATIONS
1	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> , 2012, 26, 359-365.	1.5	3
2	Enhanced bioreaction efficiency of a microfluidic mixer toward high-throughput and low-cost bioassays. <i>Microfluidics and Nanofluidics</i> , 2012, 12, 143-156.	2.2	10
3	Resonant behavior and microfluidic manipulation of silicone cilia due to an added mass effect. <i>Soft Matter</i> , 2011, 7, 4325.	2.7	10
4	High-Performance Graphene-Based Transparent Flexible Heaters. <i>Nano Letters</i> , 2011, 11, 5154-5158.	9.1	457
5	Evaluation of slant crack propagation under RCF in railway rail. <i>Journal of Mechanical Science and Technology</i> , 2011, 25, 1215-1220.	1.5	6
6	Transparent Conductive Film Fabrication Using Intercalating Silver Nanoparticles within Carbon Nanotube Layers. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 489-493.	0.9	8
7	Enhancement of J estimation for typical nuclear pipes with a circumferential surface crack under tensile load. <i>Journal of Mechanical Science and Technology</i> , 2010, 24, 681-686.	1.5	6
8	Correction of constraint loss in fracture toughness measurement of PCVN specimens based on fracture toughness diagram. <i>Journal of Mechanical Science and Technology</i> , 2010, 24, 687-692.	1.5	5
9	Roll-to-roll production of 30-inch graphene films for transparent electrodes. <i>Nature Nanotechnology</i> , 2010, 5, 574-578.	31.5	7,294
10	Highly conductive, printable and stretchable composite films of carbon nanotubes and silver. <i>Nature Nanotechnology</i> , 2010, 5, 853-857.	31.5	771
11	Design of Nanodiamond Based Drug Delivery Patch for Cancer Therapeutics and Imaging Applications. , 2010, , 249-284.		2
12	Functionalized nano-silver particles assembled on one-dimensional nanotube scaffolds for ultra-highly conductive silver/polymer composites. <i>Journal of Materials Chemistry</i> , 2010, 20, 3579.	6.7	61
13	An immunoassay using biotinylated single-walled carbon nanotubes as Raman biomarkers. <i>Analyst</i> , The, 2009, 134, 1294.	3.5	3
14	The quantitative characterization of the dispersion state of single-walled carbon nanotubes using Raman spectroscopy and atomic force microscopy. <i>Carbon</i> , 2008, 46, 1530-1534.	10.3	23
15	Restraining effect of support plates on the limit loads for circumferential cracks in the steam generator tube. <i>Nuclear Engineering and Design</i> , 2008, 238, 135-142.	1.7	12
16	Optical detection of DNA hybridization using absorption spectra of single-walled carbon nanotubes. <i>Materials Chemistry and Physics</i> , 2008, 112, 738-741.	4.0	42
17	THE EFFECT OF THE EVOLUTION OF CONTACT SURFACE PROFILE ON FATIGUE CRACK NUCLEATION SITE IN PRESS-FITTED SHAFT. , 2008, , .		0
18	Absorption spectroscopic study of DNA hybridization using single-walled carbon nanotubes. , 2007, , .		0

#	ARTICLE	IF	CITATIONS
19	Elastic-plastic fracture mechanics assessment for steam generator tubes with through-wall cracks. Fatigue and Fracture of Engineering Materials and Structures, 2007, 30, 131-142.	3.4	12
20	Determination of failure pressure for tubes with two non-aligned axial through-wall cracks. International Journal of Fracture, 2007, 144, 91-101.	2.2	14
21	ICONE15-10428 INTEGRITY ASSESSMENT OF STEAM GENERATOR TUBES BASED ON ELASTIC-PLASTIC FRACTURE MECHANICS CONCEPT. The Proceedings of the International Conference on Nuclear Engineering (ICONE), 2007, 2007.15, _ICONE1510-_ICONE1510.	0.0	0
22	Restrained Bending Effect by the Support Plate on the Steam Generator Tube with Circumferential Cracks. Transactions of the Korean Society of Mechanical Engineers, A, 2007, 31, 277-284.	0.2	0
23	Nanotube Molecular Probes: DNA Hybridization using Single Walled Carbon Nanotubes as Biomarkers. , 2006, , .		0
24	The DNA hybridization assay using single-walled carbon nanotubes as ultrasensitive, long-term optical labels. Nanotechnology, 2006, 17, 3442-3445.	2.6	36
25	Structural Integrity Evaluation of SG Tube with Surface Wear-type Defects. Transactions of the Korean Society of Mechanical Engineers, A, 2006, 30, 1618-1625.	0.2	1
26	Engineering J Estimation Methods for Leak-Before-Break Analyses of Nuclear Piping. JSME International Journal Series A-Solid Mechanics and Material Engineering, 2005, 48, 41-50.	0.4	5
27	Parallel process system and its application to steam generator structural analysis. Journal of Mechanical Science and Technology, 2005, 19, 2007-2015.	1.5	1
28	Reference Stress Based Approach to Predict Failure Strength of Pipes With Local Wall Thinning Under Combined Loading. Journal of Pressure Vessel Technology, Transactions of the ASME, 2005, 127, 76-83.	0.6	16
29	Elastic-plastic Fracture Mechanics Analyses for Burst Pressure Prediction of Through-wall Cracked Tubes. Transactions of the Korean Society of Mechanical Engineers, A, 2005, 29, 1361-1368.	0.2	0
30	Development of cleavage fracture toughness locus considering constraint effects. Journal of Mechanical Science and Technology, 2004, 18, 2158-2173.	0.4	1
31	Numerical calculation of energy release rates by virtual crack closure technique. Journal of Mechanical Science and Technology, 2004, 18, 1996-2008.	0.4	5
32	Effect of biaxial loads on elastic-plastic J and crack tip constraint for cracked plates: finite element study. International Journal of Fracture, 2004, 130, 803-825.	2.2	18
33	Approximate elastic-plastic J estimates of cylinders with off-centred circumferential through-wall cracks. Engineering Fracture Mechanics, 2004, 71, 1673-1693.	4.3	6
34	Elastic-plastic fracture mechanics assessment of test data for circumferential cracked pipes. Engineering Fracture Mechanics, 2004, 71, 173-191.	4.3	9
35	Elastic-plastic fracture mechanics method for finite internal axial surface cracks in cylinders. Engineering Fracture Mechanics, 2004, 71, 925-944.	4.3	46
36	Reference Stress Based Approach to Predict Failure Strength of Pipes With Local Wall Thinning Under Single Loading. Journal of Pressure Vessel Technology, Transactions of the ASME, 2004, 126, 194-201.	0.6	27

#	ARTICLE	IF	CITATIONS
37	Engineering Leak-Before-Break Analyses of Pressurized Piping: Part I- Crack Opening Displacement. JSME International Journal Series A-Solid Mechanics and Material Engineering, 2004, 47, 591-599.	0.4	3
38	Integrity evaluation system of CANDU reactor pressure tube. Journal of Mechanical Science and Technology, 2003, 17, 947-957.	0.4	7
39	Reference stress based fracture mechanics analysis for circumferential through-wall cracked pipes: experimental validation. Nuclear Engineering and Design, 2003, 226, 83-96.	1.7	3
40	Finite element based plastic limit loads for cylinders with part-through surface cracks under combined loading. International Journal of Pressure Vessels and Piping, 2003, 80, 527-540.	2.6	80
41	Development of an Integrity Evaluation System for Nuclear Power Plants. JSME International Journal Series C-Mechanical Systems Machine Elements and Manufacturing, 2003, 46, 1464-1472.	0.3	1
42	A Finite Element Study on the Integrity Evaluation Method of Subclad Cracks Under Pressurized Thermal Shock Transients. Journal of Pressure Vessel Technology, Transactions of the ASME, 2003, 125, 46-51.	0.6	5
43	Approximate Elastic-Plastic J Estimate of Cylinders With Off-Centered Circumferential Through-Wall Cracks. , 2003, , 51.		0
44	Elastic-plastic J and COD estimates for axial through-wall cracked pipes. International Journal of Pressure Vessels and Piping, 2002, 79, 451-464.	2.6	29
45	Plastic limit pressures for cracked pipes using finite element limit analyses. International Journal of Pressure Vessels and Piping, 2002, 79, 321-330.	2.6	74
46	Engineering C-integral estimates for generalised creep behaviour and finite element validation. International Journal of Pressure Vessels and Piping, 2002, 79, 427-443.	2.6	26
47	Reference stress based elastic-plastic fracture analysis for circumferential through-wall cracked pipes under combined tension and bending. Engineering Fracture Mechanics, 2002, 69, 367-388.	4.3	36
48	Quantification of pressure-induced hoop stress effect on fracture analysis of circumferential through-wall cracked pipes. Engineering Fracture Mechanics, 2002, 69, 1249-1267.	4.3	34
49	Non-linear fracture mechanics analyses of part circumferential surface cracked pipes. International Journal of Fracture, 2002, 116, 347-375.	2.2	44
50	Crack opening analysis of complex cracked pipes. International Journal of Fracture, 2001, 111, 71-86.	2.2	20