

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 | Roll-to-roll production of 30-inch graphene films for transparent electrodes. <i>Nature Nanotechnology</i> , 2010, 5, 574-578. | 31.5 | 7,294 |
| 2 | Highly conductive, printable and stretchable composite films of carbon nanotubes and silver. <i>Nature Nanotechnology</i> , 2010, 5, 853-857. | 31.5 | 771 |
| 3 | High-Performance Graphene-Based Transparent Flexible Heaters. <i>Nano Letters</i> , 2011, 11, 5154-5158. | 9.1 | 457 |
| 4 | 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> , 2003, 80, 527-540. | 2.6 | 80 |
| 5 | Plastic limit pressures for cracked pipes using finite element limit analyses. <i>International Journal of Pressure Vessels and Piping</i> , 2002, 79, 321-330. | 2.6 | 74 |
| 6 | 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 |
| 7 | Elastic-plastic fracture mechanics method for finite internal axial surface cracks in cylinders. <i>Engineering Fracture Mechanics</i> , 2004, 71, 925-944. | 4.3 | 46 |
| 8 | Non-linear fracture mechanics analyses of part circumferential surface cracked pipes. <i>International Journal of Fracture</i> , 2002, 116, 347-375. | 2.2 | 44 |
| 9 | 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 |
| 10 | Reference stress based elastic-plastic fracture analysis for circumferential through-wall cracked pipes under combined tension and bending. <i>Engineering Fracture Mechanics</i> , 2002, 69, 367-388. | 4.3 | 36 |
| 11 | The DNA hybridization assay using single-walled carbon nanotubes as ultrasensitive, long-term optical labels. <i>Nanotechnology</i> , 2006, 17, 3442-3445. | 2.6 | 36 |
| 12 | Quantification of pressure-induced hoop stress effect on fracture analysis of circumferential through-wall cracked pipes. <i>Engineering Fracture Mechanics</i> , 2002, 69, 1249-1267. | 4.3 | 34 |
| 13 | Elastic-plastic J and COD estimates for axial through-wall cracked pipes. <i>International Journal of Pressure Vessels and Piping</i> , 2002, 79, 451-464. | 2.6 | 29 |
| 14 | 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> , 2004, 126, 194-201. | 0.6 | 27 |
| 15 | Engineering C-integral estimates for generalised creep behaviour and finite element validation. <i>International Journal of Pressure Vessels and Piping</i> , 2002, 79, 427-443. | 2.6 | 26 |
| 16 | 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 |
| 17 | Crack opening analysis of complex cracked pipes. <i>International Journal of Fracture</i> , 2001, 111, 71-86. | 2.2 | 20 |
| 18 | Effect of biaxial loads on elastic-plastic J and crack tip constraint for cracked plates: finite element study. <i>International Journal of Fracture</i> , 2004, 130, 803-825. | 2.2 | 18 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | 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> , 2005, 127, 76-83. | 0.6 | 16 |
| 20 | Determination of failure pressure for tubes with two non-aligned axial through-wall cracks. <i>International Journal of Fracture</i> , 2007, 144, 91-101. | 2.2 | 14 |
| 21 | Elastic-plastic fracture mechanics assessment for steam generator tubes with through-wall cracks. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2007, 30, 131-142. | 3.4 | 12 |
| 22 | 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 |
| 23 | Resonant behavior and microfluidic manipulation of silicone cilia due to an added mass effect. <i>Soft Matter</i> , 2011, 7, 4325. | 2.7 | 10 |
| 24 | 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 |
| 25 | Elastic-plastic fracture mechanics assessment of test data for circumferential cracked pipes. <i>Engineering Fracture Mechanics</i> , 2004, 71, 173-191. | 4.3 | 9 |
| 26 | 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 |
| 27 | Integrity evaluation system of CANDU reactor pressure tube. <i>Journal of Mechanical Science and Technology</i> , 2003, 17, 947-957. | 0.4 | 7 |
| 28 | Approximate elastic-plastic J estimates of cylinders with off-centred circumferential through-wall cracks. <i>Engineering Fracture Mechanics</i> , 2004, 71, 1673-1693. | 4.3 | 6 |
| 29 | 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 |
| 30 | 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 |
| 31 | 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> , 2003, 125, 46-51. | 0.6 | 5 |
| 32 | Numerical calculation of energy release rates by virtual crack closure technique. <i>Journal of Mechanical Science and Technology</i> , 2004, 18, 1996-2008. | 0.4 | 5 |
| 33 | Engineering J Estimation Methods for Leak-Before-Break Analyses of Nuclear Piping. <i>JSME International Journal Series A-Solid Mechanics and Material Engineering</i> , 2005, 48, 41-50. | 0.4 | 5 |
| 34 | 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 |
| 35 | Reference stress based fracture mechanics analysis for circumferential through-wall cracked pipes: experimental validation. <i>Nuclear Engineering and Design</i> , 2003, 226, 83-96. | 1.7 | 3 |
| 36 | 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> , 2004, 47, 591-599. | 0.4 | 3 |

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|----|--|-----|-----------|
| 37 | An immunoassay using biotinylated single-walled carbon nanotubes as Raman biomarkers. <i>Analyst</i> , The, 2009, 134, 1294. | 3.5 | 3 |
| 38 | 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 |
| 39 | Design of Nanodiamond Based Drug Delivery Patch for Cancer Therapeutics and Imaging Applications. , 2010, , 249-284. | | 2 |
| 40 | Development of an Integrity Evaluation System for Nuclear Power Plants. <i>JSME International Journal Series C-Mechanical Systems Machine Elements and Manufacturing</i> , 2003, 46, 1464-1472. | 0.3 | 1 |
| 41 | Development of cleavage fracture toughness locus considering constraint effects. <i>Journal of Mechanical Science and Technology</i> , 2004, 18, 2158-2173. | 0.4 | 1 |
| 42 | Parallel process system and its application to steam generator structural analysis. <i>Journal of Mechanical Science and Technology</i> , 2005, 19, 2007-2015. | 1.5 | 1 |
| 43 | Structural Integrity Evaluation of SG Tube with Surface Wear-type Defects. <i>Transactions of the Korean Society of Mechanical Engineers, A</i> , 2006, 30, 1618-1625. | 0.2 | 1 |
| 44 | Approximate Elastic-Plastic J Estimate of Cylinders With Off-Centered Circumferential Through-Wall Cracks. , 2003, , 51. | | 0 |
| 45 | Nanotube Molecular Probes: DNA Hybridization using Single Walled Carbon Nanotubes as Biomarkers. , 2006, , . | | 0 |
| 46 | Absorption spectroscopic study of DNA hybridization using single-walled carbon nanotubes. , 2007, , . | | 0 |
| 47 | 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> , 2005, 29, 1361-1368. | 0.2 | 0 |
| 48 | 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> , 2007, 2007.15, _ICONE1510-_ICONE1510. | 0.0 | 0 |
| 49 | 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> , 2007, 31, 277-284. | 0.2 | 0 |
| 50 | THE EFFECT OF THE EVOLUTION OF CONTACT SURFACE PROFILE ON FATIGUE CRACK NUCLEATION SITE IN PRESS-FITTED SHAFT. , 2008, , . | | 0 |