

Ho-Young Kwak

List of Publications by Year in descending order

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121
papers

2,871
citations

159585

30
h-index

197818

49
g-index

125
all docs

125
docs citations

125
times ranked

2604
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermodynamic, Exergetic and Thermo-economic Analyses of Double-Effect LiBr-H ₂ O Water Absorption Refrigeration Systems with a 5 kW High Temperature PEMFC as Heat Source for Data Center Applications. <i>Energies</i> , 2022, 15, 3101.	3.1	2
2	Thermodynamic, exergetic, and thermo-economic analyses of a 1-kW proton exchange membrane fuel cell system fueled by natural gas. <i>Energy</i> , 2021, 217, 119362.	8.8	9
3	Diagnosis of a hydrogen-fueled 1-kW PEMFC system based on exergy analysis. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 17745-17758.	7.1	10
4	Role of Waste Cost in Thermo-economic Analysis. <i>Entropy</i> , 2020, 22, 289.	2.2	5
5	Thermal management for a hydrogen-fueled 1-kW PEMFC based on thermo-economic analysis. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 24934-24946.	7.1	17
6	Homogeneous nucleation of nano size H ₂ O bubbles and their growth to micro size in rhyolite melts. <i>Geosciences Journal</i> , 2019, 23, 425-438.	1.2	2
7	Laser-induced bubble formation on a micro gold particle levitated in water under ultrasonic field. <i>Experimental Thermal and Fluid Science</i> , 2018, 93, 285-291.	2.7	7
8	Entropy Generation Due to the Heat Transfer for Evolving Spherical Objects. <i>Entropy</i> , 2018, 20, 562.	2.2	2
9	Adhesive force measurement of steady-state water nano-meniscus: Effective surface tension at nanoscale. <i>Scientific Reports</i> , 2018, 8, 8462.	3.3	19
10	Thermo-economic installation limit of PV/WT hybrid energy systems for Off-grid islands. <i>International Journal of Green Energy</i> , 2017, 14, 961-969.	3.8	3
11	Shock wave propagation in bubbly liquids at small gas volume fractions. <i>Journal of Mechanical Science and Technology</i> , 2017, 31, 1223-1231.	1.5	8
12	Exergetic and thermo-economic analyses of a coal-fired power plant. <i>International Journal of Thermal Sciences</i> , 2017, 117, 106-120.	4.9	56
13	Diagnosis of Combined Cycle Power Plant Based on Thermo-economic Analysis: A Computer Simulation Study. <i>Entropy</i> , 2017, 19, 643.	2.2	11
14	Pressure waves in bubbly liquids. <i>Journal of Mechanical Science and Technology</i> , 2016, 30, 3935-3943.	1.5	6
15	Characteristics of LiFePO ₄ /C composite prepared by sonochemical method under multibubble sonoluminescence. <i>Korean Journal of Chemical Engineering</i> , 2016, 33, 688-696.	2.7	5
16	Thermo-economic analysis of an ocean thermal energy conversion plant. <i>Renewable Energy</i> , 2016, 86, 1086-1094.	8.9	35
17	Homogeneous vapor nucleation of water in 3M NaCl solution within a nanopore. <i>International Communications in Heat and Mass Transfer</i> , 2015, 68, 252-257.	5.6	0
18	Characterization, Luminescence, and Defect Centers of a Ce ³⁺ -Doped Li ₂ Si ₂ O ₅ Phosphor Prepared by a Solution Combustion Reaction. <i>Journal of Electronic Materials</i> , 2015, 44, 2736-2744.	2.2	8

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19	Bubble Formation on the Surface of Laser-Irradiated Nanosized Particles. Journal of Heat Transfer, 2014, 136, .	2.1	5
20	Thermoeconomic analysis of ground-source heat pump systems. International Journal of Energy Research, 2014, 38, 259-269.	4.5	15
21	Hydrodynamic approach to multibubble sonoluminescence. Ultrasonics Sonochemistry, 2014, 21, 1512-1518.	8.2	9
22	A cost-effective method for integration of new and renewable energy systems in public buildings in Korea. Energy and Buildings, 2014, 74, 120-131.	6.7	25
23	Characterization of Dielectric Relaxation and Reliability of High-k MIM Capacitor Under Constant Voltage Stress. Journal of Semiconductor Technology and Science, 2014, 14, 543-548.	0.4	3
24	Effects of High-Pressure Annealing on Random Telegraph Signal Noise Characteristic of Source Follower Block in CMOS Image Sensor. IEEE Electron Device Letters, 2013, 34, 190-192.	3.9	8
25	Characterization of Al ₂ O ₃ /HfO ₂ /Al ₂ O ₃ sandwiched MIM capacitor under DC and AC stresses. Solid-State Electronics, 2013, 79, 218-222.	1.4	21
26	A support strategy for the promotion of photovoltaic uses for residential houses in Korea. Energy Policy, 2013, 53, 248-256.	8.8	18
27	A novel BJT structure for high- performance analog circuit applications. , 2013, , .		0
28	Effects of Fluorine Implantation on $1/f$ Noise, Hot Carrier and NBTI Reliability of MOSFETs. IEICE Transactions on Electronics, 2013, E96.C, 624-629.	0.6	2
29	Novel PNP BJT Structure to Improve Matching Characteristics for Analog and Mixed Signal Integrated Circuit Applications. IEICE Transactions on Electronics, 2013, E96.C, 663-668.	0.6	0
30	A Novel BJT Structure Implemented Using CMOS Processes for High-Performance Analog Circuit Applications. IEEE Transactions on Semiconductor Manufacturing, 2012, 25, 549-554.	1.7	8
31	Fire-ball expansion and subsequent shock wave propagation from explosives detonation. International Journal of Thermal Sciences, 2012, 59, 9-16.	4.9	9
32	Mixed and autothermal reforming of methane with supported Ni catalysts with a core/shell structure. Fuel Processing Technology, 2012, 93, 105-114.	7.2	17
33	Optimal operation of a 1-kW PEMFC-based CHP system for residential applications. Applied Energy, 2012, 95, 93-101.	10.1	92
34	Characterization of Al ₂ O ₃ /HfO ₂ /Al ₂ O ₃ sandwiched MIM capacitor under DC and AC stresses. , 2011, , .		
35	Thermoeconomic Analysis of High-Temperature Gas-Cooled Reactors with Steam Methane Reforming for Hydrogen Production. Nuclear Technology, 2011, 176, 337-351.	1.2	9
36	Luminescence and EPR studies of Y ₂ O ₃ :Gd ³⁺ phosphors prepared via solution combustion method. Journal of Materials Science, 2011, 46, 1038-1043.	3.7	26

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37	EPR and photoluminescence properties of combustion-synthesized ZnAl ₂ O ₄ :Cr ³⁺ phosphors. Journal of Materials Science, 2011, 46, 2331-2337.	3.7	66
38	Investigations on green-emitting, Mn ²⁺ : BaAl ₁₂ O ₁₉ phosphors obtained by solution combustion process. Journal of Materials Science, 2011, 46, 3928-3934.	3.7	18
39	Preparation of supported Ni catalysts on various metal oxides with core/shell structures and their tests for the steam reforming of methane. Chemical Engineering Journal, 2011, 168, 775-783.	12.7	75
40	The absolute metastable limit of liquids under tension—a review. Journal of Mechanical Science and Technology, 2011, 25, 863-869.	1.5	1
41	Catalytic test of supported Ni catalysts with core/shell structure for dry reforming of methane. Fuel Processing Technology, 2011, 92, 1236-1243.	7.2	95
42	Expanding of Fire-Ball and Subsequent Shock Wave Propagation by Explosives Detonation in Underwater. , 2011, , .		0
43	Dependence of 1/f noise characteristics of NMOSFETs on body bias and temperature in sub-threshold region. , 2011, , .		3
44	10.2478/s11814-009-0235-2. , 2011, 26, 1717.		0
45	Expansion of a Fire-Ball and Subsequent Shock-Wave Propagation due to Underwater TNT Explosion. Transactions of the Korean Society of Mechanical Engineers, B, 2011, 35, 677-683.	0.1	1
46	Measurement of Pulse Width from a Bubble Cloud under Multibubble Sonoluminescence Conditions. Journal of the Physical Society of Japan, 2010, 79, 124401.	1.6	8
47	Pulse Width Measurement of Sonoluminescing Air Bubbles in Various Solutions using a Time-Correlated Single Photon Counting Technique. Journal of Fluid Science and Technology, 2010, 5, 2-13.	0.6	3
48	Infrared emission and defect centres in Er and Yb codoped Y ₃ Al ₅ O ₁₂ phosphors. Applied Physics A: Materials Science and Processing, 2010, 100, 1123-1130.	2.3	17
49	Luminescence and defect centres in Tb ³⁺ doped LaMgAl ₁₁ O ₁₉ phosphors. Solid State Sciences, 2010, 12, 1981-1987.	3.2	41
50	Luminescence and EPR studies of Eu ²⁺ doped BaAl ₁₂ O ₁₉ blue light emitting phosphors. Journal of Luminescence, 2010, 130, 703-708.	3.1	36
51	Synthesis, characterization and photoluminescence of Eu ³⁺ , Ce ³⁺ -co-doped CaLaAl ₃ O ₇ phosphors. Philosophical Magazine, 2010, 90, 3095-3105.	1.6	16
52	Gaseous Bubble Nucleation Under Shear Flow. , 2009, , .		0
53	Syntheses of Mn ₃ O ₄ and LiMn ₂ O ₄ nanoparticles by a simple sonochemical method. Materials Letters, 2009, 63, 2201-2204.	2.6	15
54	Characterization of thiourea-formaldehyde chelating resin by sorption of chromium(III) in water. Korean Journal of Chemical Engineering, 2009, 26, 1717-1722.	2.7	3

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55	Nonlinear behavior of micro bubbles under ultrasound due to heat transfer. Journal of Mechanical Science and Technology, 2009, 23, 2521-2528.	1.5	5
56	Forced convective heat transfer of nanofluids in microchannels. International Journal of Heat and Mass Transfer, 2009, 52, 466-472.	4.8	291
57	Gaseous bubble nucleation under shear flow. International Journal of Heat and Mass Transfer, 2009, 52, 4929-4937.	4.8	5
58	Preparation of supported Ni catalysts with a core/shell structure and their catalytic tests of partial oxidation of methane. International Journal of Hydrogen Energy, 2009, 34, 3351-3359.	7.1	62
59	Coating of TiO ₂ nanoparticles with PbS thin films and preparation of PbS nanoparticles using a one-pot sonochemical reaction under the multibubble sonoluminescence conditions. Thin Solid Films, 2009, 517, 6663-6665.	1.8	13
60	Fluid flow and heat transfer in microchannels with rectangular cross section. Heat and Mass Transfer, 2008, 44, 1041-1049.	2.1	50
61	Economic optimization of a cogeneration system for apartment houses in Korea. Energy and Buildings, 2008, 40, 961-967.	6.7	29
62	Syntheses of ZnO and ZnO-coated TiO ₂ nanoparticles in various alcohol solutions at multibubble sonoluminescence (MBSL) condition. Chemical Engineering Journal, 2008, 135, 168-173.	12.7	15
63	Validation of molecular dynamics simulation for a collapsing process of sonoluminescing gas bubbles. Molecular Physics, 2008, 106, 967-975.	1.7	8
64	Syntheses of Specialty Nanomaterials at the Multibubble Sonoluminescence Condition. , 2008, , .		1
65	A capillary-pumped loop (CPL) with microcone-shaped capillary structure for cooling electronic devices. Journal of Micromechanics and Microengineering, 2008, 18, 017002.	2.6	21
66	Measurement of Pulse Width of Sonoluminescing Gas Bubble in Sulfuric Acid Solution. Journal of the Physical Society of Japan, 2008, 77, 033703.	1.6	9
67	Molecular Dynamics Simulation of Collapsing Phase for a Sonoluminescing Gas Bubble in Sulfuric Acid Solutions: A Comparative Study with Theoretical Results. Journal of the Physical Society of Japan, 2007, 76, 024301.	1.6	4
68	Economic Optimization of a Cogeneration System for Apartments in Korea. , 2007, , 179.		0
69	Preparation of Li ₄ Ti ₅ O ₁₂ nanoparticles by a simple sonochemical method. Dalton Transactions, 2007, , 4182.	3.3	39
70	Economic evaluation for adoption of cogeneration system. Applied Energy, 2007, 84, 266-278.	10.1	30
71	Optimal planning and economic evaluation of cogeneration system. Energy, 2007, 32, 760-771.	8.8	68
72	Temperature and pressure fields due to collapsing bubble under ultrasound. Chemical Engineering Journal, 2007, 132, 125-135.	12.7	47

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73	Fabrication and testing of bubble powered micropumps using embedded microheater. <i>Microfluidics and Nanofluidics</i> , 2007, 3, 161-169.	2.2	30
74	Predictions of bubble behavior in sulfuric acid solutions by a set of solutions of Navier–Stokes equations. <i>Chemical Engineering Science</i> , 2007, 62, 2880-2889.	3.8	12
75	Characteristics of Sonoluminescing Bubbles in Aqueous Solutions of Sulfuric Acid. <i>Journal of the Physical Society of Japan</i> , 2006, 75, 114705.	1.6	15
76	Capillary Pumped Loop (CPL) With Cone Shaped Capillary Structure for Cooling Electronic Device. , 2006, , 313.		0
77	Forced Convective Heat Transfer of Nanofluids in Microchannels. , 2006, , 327.		29
78	Effect of surface condition on boiling heat transfer from silicon chip with submicron-scale roughness. <i>International Journal of Heat and Mass Transfer</i> , 2006, 49, 4543-4551.	4.8	55
79	Electrohydrodynamic (EHD) enhancement of boiling heat transfer of R 113+WT4% ethanol. <i>Journal of Mechanical Science and Technology</i> , 2006, 20, 681-691.	1.5	1
80	Relaxation Behavior of Microbubbles in Ultrasonic Field. <i>Japanese Journal of Applied Physics</i> , 2006, 45, 317-322.	1.5	4
81	Bubble Nucleation and Behavior on Micro Square Heaters. <i>Nanoscale and Microscale Thermophysical Engineering</i> , 2006, 10, 95-107.	2.6	4
82	Lagging motion of forced nonlinear oscillators. <i>Journal of Sound and Vibration</i> , 2005, 287, 117-128.	3.9	2
83	Degradation of methylene blue under multibubble sonoluminescence condition. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2005, 175, 45-50.	3.9	37
84	Explosive boiling of liquid droplets at their superheat limits. <i>Chemical Engineering Science</i> , 2005, 60, 1809-1821.	3.8	31
85	Proteinaceous bubble and nanoparticle flows in microchannels. <i>Microfluidics and Nanofluidics</i> , 2005, 1, 177-182.	2.2	2
86	Bubble Evolution and Radiation Mechanism for Laser-Induced Collapsing Bubble in Water. <i>Japanese Journal of Applied Physics</i> , 2004, 43, 6364-6370.	1.5	19
87	Vapor Bubble Nucleation: A Microscopic Phenomenon. <i>Journal of Mechanical Science and Technology</i> , 2004, 18, 1271-1287.	0.4	6
88	Bubble nucleation and growth in polymer solutions. <i>Polymer Engineering and Science</i> , 2004, 44, 1890-1899.	3.1	44
89	Cost structure of CGAM cogeneration system. <i>International Journal of Energy Research</i> , 2004, 28, 1145-1158.	4.5	37
90	Exergetic and thermoeconomic analysis of a 200-kW phosphoric acid fuel cell plant. <i>Fuel</i> , 2004, 83, 2087-2094.	6.4	38

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91	Gasâ€“vapor bubble nucleationâ€”a unified approach. Journal of Colloid and Interface Science, 2004, 278, 436-446.	9.4	35
92	A Model of Laser-Induced Cavitation. Japanese Journal of Applied Physics, 2004, 43, 621-630.	1.5	33
93	Enhancement of the critical heat flux by using heat spreader. Journal of Mechanical Science and Technology, 2003, 17, 1063-1072.	0.4	3
94	Bubble nucleation on micro line heaters under steady or finite pulse of voltage input. International Journal of Heat and Mass Transfer, 2003, 46, 3897-3907.	4.8	19
95	Hydrodynamics and Thermodynamics of Newtonian Stars. Geophysical and Astrophysical Fluid Dynamics, 2003, 97, 45-58.	1.2	5
96	Bubble Nucleation on Micro Line Heaters. Journal of Heat Transfer, 2003, 125, 687-692.	2.1	21
97	Possibility of Upscaling for Single Bubble Sonoluminescence at a Low Driving Frequency. Journal of the Physical Society of Japan, 2003, 72, 509-515.	1.6	7
98	Fluid Flow and Heat Transfer in Microchannels With Rectangular Cross Section. , 2003, , 291.		3
99	Measurement of the Superheat Limit of Liquids and Droplet Behavior at this Limit. Transactions of the Korean Society of Mechanical Engineers, B, 2003, 27, 1317-1326.	0.1	0
100	Quantum Nucleation of Bubbles in Liquid Heliums. Journal of the Physical Society of Japan, 2002, 71, 2186-2191.	1.6	4
101	Bubble Dynamics for Single Bubble Sonoluminescence. Journal of the Physical Society of Japan, 2001, 70, 2909-2917.	1.6	13
102	Exergoeconomic analysis of gas turbine cogeneration systems. Exergy an International Journal, 2001, 1, 31-40.	0.7	89
103	Experimental Study on Closed-Loop Two-Phase Thermosyphon Devices for Cooling MCMs. Heat Transfer Engineering, 2001, 22, 29-39.	1.9	36
104	Radiation Mechanism for a Single Bubble Sonoluminescence. Journal of the Physical Society of Japan, 2000, 69, 112-119.	1.6	35
105	Radius Measurement of a Sonoluminescing Gas Bubble. Japanese Journal of Applied Physics, 2000, 39, 1124-1127.	1.5	11
106	Stability and Selective Bifurcation for a Gas Bubble Oscillating under Ultrasound. Journal of the Physical Society of Japan, 1999, 68, 1197-1204.	1.6	4
107	Pressure Wave Propagation inside a Sonoluminescing Gas Bubble. Journal of the Physical Society of Japan, 1999, 68, 705-708.	1.6	5
108	Homogeneous nucleation and macroscopic growth of gas bubble in organic solutions. International Journal of Heat and Mass Transfer, 1998, 41, 757-767.	4.8	49

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109	A Model of Homogeneous Bubble Nucleation of CO Bubbles in Fe-C-O Melts. Journal of Colloid and Interface Science, 1998, 198, 113-118.	9.4	12
110	Forced convective boiling in vertical tube for binary refrigerant mixtures of R11 and R113. Journal of Mechanical Science and Technology, 1998, 12, 493-503.	0.4	7
111	Exergoeconomic analysis of thermal systems. Energy, 1998, 23, 393-406.	8.8	109
112	Transient Characteristics of a Two-Phase Thermosyphon Loop for Multichip Module. ETRI Journal, 1998, 20, 284-300.	2.0	10
113	Physical Processes for Single Bubble Sonoluminescence. Journal of the Physical Society of Japan, 1997, 66, 3074-3083.	1.6	50
114	Shock Pulse from a Sonoluminescing Gas Bubble. Journal of the Physical Society of Japan, 1997, 66, 2537-2540.	1.6	12
115	Exergy Analysis for a Gas Turbine Cogeneration System. Journal of Engineering for Gas Turbines and Power, 1996, 118, 782-791.	1.1	54
116	Hydrodynamic Solutions for a Sonoluminescing Gas Bubble. Physical Review Letters, 1996, 77, 4454-4457.	7.8	75
117	An Aspect of Sonoluminescence from Hydrodynamic Theory. Journal of the Physical Society of Japan, 1995, 64, 1980-1992.	1.6	79
118	Bubble dynamics on the evolving bubble formed from the droplet at the superheat limit. International Journal of Heat and Mass Transfer, 1995, 38, 1709-1718.	4.8	43
119	Homogeneous Bubble Nucleation Predicted by a Molecular Interaction Model. Journal of Heat Transfer, 1991, 113, 714-721.	2.1	51
120	Tensile strength of simple liquids predicted by a model of molecular interactions. Journal Physics D: Applied Physics, 1985, 18, 647-659.	2.8	64
121	Exergetic Costs for Thermal Systems. , 0, , .		0