Jeong-Won Kang

List of Publications by Year
in descending order

127 papers	2,352 citations	201674 27 h-index	276875 41 g-index
128 all docs	128 docs citations	128 times ranked	1432 citing authors

#	Article	IF	Citations
1	Structures of ultrathin copper nanowires encapsulated in carbon nanotubes. Physical Review B, 2003, 68, .	3.2	113
2	Tuning ionic liquids for hydrate inhibition. Chemical Communications, 2011, 47, 6341.	4.1	89
3	Nanoscale carbon nanotube motor schematics and simulations for micro-electro-mechanical machines. Nanotechnology, 2004, 15, 1633-1638.	2.6	88
4	Mechanical deformation study of copper nanowire using atomistic simulation. Nanotechnology, 2001, 12, 295-300.	2.6	78
5	Copper nanocluster diffusion in carbon nanotube. Solid State Communications, 2004, 129, 687-690.	1.9	75
6	Nanotube oscillator based on a short single-walled carbon nanotube bundle. Nanotechnology, 2006, 17, 2250-2258.	2.6	71
7	Fullerene nano ball bearings: an atomistic study. Nanotechnology, 2004, 15, 614-621.	2.6	61
8	Gigahertz actuator of multiwall carbon nanotube encapsulating metallic ions: molecular dynamics simulations. Journal of Applied Physics, 2004, 96, 3900-3905.	2.5	58
9	Comparison of C60 encapsulations into carbon and boron nitride nanotubes. Journal of Physics Condensed Matter, 2004, 16, 3901-3908.	1.8	56
10	Unusual synergy effect on methane hydrate inhibition when ionic liquid meets polymer. RSC Advances, 2013, 3, 19920.	3.6	54
11	Carbon-nanotube-based nanoelectromechanical switch. Physica E: Low-Dimensional Systems and Nanostructures, 2005, 27, 163-175.	2.7	51
12	Atomistic study of III-nitride nanotubes. Computational Materials Science, 2004, 31, 237-246.	3.0	47
13	Electrostatically telescoping nanotube nonvolatile memory device. Nanotechnology, 2007, 18, 095705.	2.6	46
14	Thermodynamic inhibition of CO_2 hydrate in the presence of morpholinium and piperidinium ionic liquids. Fluid Phase Equilibria, 2016, 413, 75-79.	2.5	43
15	Carbon nanotube oscillator operated by thermal expansion of encapsulated gases. Nanotechnology, 2005, 16, 2670-2676.	2.6	41
16	Carbon nanotubes as nanopipette: modelling and simulations. Physica E: Low-Dimensional Systems and Nanostructures, 2004, 23, 208-216.	2.7	39
17	Molecular dynamics modeling and simulation of a graphene-based nanoelectromechanical resonator. Current Applied Physics, 2013, 13, 789-794.	2.4	39
18	Molecular dynamics modeling and simulations of graphene-nanoribbon-resonator-based nanobalance as yoctogram resolution detector. Computational Materials Science, 2013, 67, 329-333.	3.0	38

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19	Molecular dynamics study on the bending rigidity of graphene nanoribbons. Computational Materials Science, 2013, 74, 107-113.	3.0	37
20	Structures of ultrathin copper nanotubes. Journal of Physics Condensed Matter, 2002, 14, 8997-9005.	1.8	35
21	False Data Injection Attacks on Contingency Analysis: Attack Strategies and Impact Assessment. IEEE Access, 2018, 6, 8841-8851.	4.2	34
22	A Bucky shuttle three-terminal switching device: classical molecular dynamics study. Physica E: Low-Dimensional Systems and Nanostructures, 2004, 23, 36-44.	2.7	32
23	Developing accelerometer based on graphene nanoribbon resonators. Physics Letters, Section A: General, Atomic and Solid State Physics, 2012, 376, 3248-3255.	2.1	32
24	Bucky shuttle memory system based on boron-nitride nanopeapod. Physica E: Low-Dimensional Systems and Nanostructures, 2004, 23, 135-140.	2.7	28
25	Fullerene Shuttle Memory Device: Classical Molecular Dynamics Study. Journal of the Physical Society of Japan, 2004, 73, 1077-1081.	1.6	28
26	A study on carbon nanotube bridge as a electromechanical memory device. Physica E: Low-Dimensional Systems and Nanostructures, 2005, 27, 332-340.	2.7	28
27	A double-walled carbon nanotube oscillator encapsulating a copper nanowire. Nanotechnology, 2006, 17, 5485-5490.	2.6	28
28	Twist of hypothetical silicon nanotubes. Modelling and Simulation in Materials Science and Engineering, 2004, 12, 1-12.	2.0	27
29	Molecular dynamics study of effects of intertube gap on frequency-controlled carbon-nanotube oscillators. Physics Letters, Section A: General, Atomic and Solid State Physics, 2010, 374, 3658-3665.	2.1	27
30	Molecular dynamics simulations of ultra-thin Cu nanowires. Computational Materials Science, 2003, 27, 305-312.	3.0	26
31	Hypothetical silicon nanotubes under axial compression. Nanotechnology, 2003, 14, 402-408.	2.6	26
32	Nanotube Oscillators: Properties and Applications. Journal of Computational and Theoretical Nanoscience, 2009, 6, 2347-2379.	0.4	26
33	Developing ultrasensitive pressure sensor based on graphene nanoribbon: Molecular dynamics simulation. Physica E: Low-Dimensional Systems and Nanostructures, 2013, 47, 6-11.	2.7	25
34	Defects in ultrathin copper nanowires: Atomistic simulations. Physical Review B, 2002, 66, .	3.2	24
35	'Carbon nanotube shuttle' memory device. Carbon, 2004, 42, 3018-3021.	10.3	23
36	Molecular dynamics modeling and simulations to understand gate-tunable graphene-nanoribbon-resonator. Physica E: Low-Dimensional Systems and Nanostructures, 2012, 45, 194-200.	2.7	23

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37	Molecular dynamics simulation study on graphene-nanoribbon-resonators tuned by adjusting axial strain. Current Applied Physics, 2013, 13, 360-365.	2.4	23
38	Thermal properties of ultra-thin copper nanobridges. Nanotechnology, 2002, 13, 503-509.	2.6	20
39	Study on tunable resonator using a cantilevered carbon nanotube encapsulating a copper nanocluster. Physica E: Low-Dimensional Systems and Nanostructures, 2011, 43, 909-913.	2.7	19
40	Molecular dynamics study on vibrational properties of graphene nanoribbon resonator under tensile loading. Computational Materials Science, 2012, 65, 216-220.	3.0	19
41	Molecular Dynamics Simulations of Single-wall GaN Nanotubes. Molecular Simulation, 2004, 30, 29-35.	2.0	18
42	Frequency change by inter-walled length difference of double-wall carbon nanotube resonator. Solid State Communications, 2009, 149, 1574-1577.	1.9	18
43	Molecular dynamics study on nanotube-resonators with mass migration applicable to both frequency-tuner and data-storage-media. Computational Materials Science, 2011, 50, 1818-1822.	3.0	18
44	Molecular dynamics simulation study on mechanical responses of nanoindented monolayer-graphene-nanoribbon. Physica E: Low-Dimensional Systems and Nanostructures, 2013, 54, 118-124.	2.7	18
45	Anomaly Detection of the Brake Operating Unit on Metro Vehicles Using a One-Class LSTM Autoencoder. Applied Sciences (Switzerland), 2021, 11, 9290.	2.5	18
46	Molecular dynamics simulations of ionized cluster beam deposition: case of study of aluminum. Computational Materials Science, 2001, 21, 509-514.	3.0	17
47	Molecular dynamics simulations of energetic aluminum cluster deposition. Computational Materials Science, 2002, 23, 105-110.	3.0	17
48	Model schematics of a nanoelectronic device based on multi-endo-fullerenes electromigration. Physica E: Low-Dimensional Systems and Nanostructures, 2005, 27, 245-252.	2.7	17
49	Molecular dynamics simulation study on capacitive nano-accelerometers based on telescoping carbon nanotubes. Modelling and Simulation in Materials Science and Engineering, 2009, 17, 025011.	2.0	17
50	Impact of Data Quality in Home Energy Management System on Distribution System State Estimation. IEEE Access, 2018, 6, 11024-11037.	4.2	17
51	Atomic-scale simulations of copper polyhedral nanorods. Nanotechnology, 2002, 13, 524-532.	2.6	16
52	Frequency characteristics of triple-walled carbon nanotube gigahertz devices. Nanotechnology, 2008, 19, 285704.	2.6	16
53	A molecular dynamics study on carbon-nanotube oscillators with intertube gaps. Physica E: Low-Dimensional Systems and Nanostructures, 2012, 44, 2027-2031.	2.7	16
54	A molecular dynamics simulation study on resonance frequencies comparison of tunable carbon-nanotube resonators. Applied Surface Science, 2012, 258, 2014-2016.	6.1	15

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55	Molecular-dynamics study of the interaction between energetic Al clusters and an Al surface. Physical Review B, 2001, 64, .	3.2	14
56	Electromechanical modeling and simulations of nanobridge memory device. Physica E: Low-Dimensional Systems and Nanostructures, 2005, 28, 273-280.	2.7	14
57	Schematics and simulations of nanomemory device based on nanopeapods. Materials Science and Engineering C, 2005, 25, 843-847.	7.3	14
58	Molecular dynamics study on oscillation dynamics of a C60 fullerene encapsulated in a vibrating carbon-nanotube-resonator. Computational Materials Science, 2010, 50, 790-795.	3.0	14
59	Fullerene Shuttle Memory Device Based on Nanopeapod: Classical Molecular Dynamics Study. Journal of Computational and Theoretical Nanoscience, 2004, 1, 199-203.	0.4	14
60	Cluster deposition study by molecular dynamics simulation: Al and Cu cluster. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2001, 19, 1902-1906.	2.1	13
61	An atomistic simulation study of cylindrical ultrathin Cu nanowires. Molecular Simulation, 2002, 28, 1021-1030.	2.0	13
62	Model schematics of carbon-nanotube-based-nanomechanical-tuner using piezoelectric strain. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 42, 1995-1999.	2.7	12
63	Schematics and Atomistic Simulations of Nanomemory Element Based on Carbon Tube-to-Peapod Transition. Japanese Journal of Applied Physics, 2004, 43, 4447-4452.	1.5	11
64	The electroemission of endo-fullerenes from a nanotube. Nanotechnology, 2004, 15, 1825-1830.	2.6	11
65	Molecular dynamics simulations of nanomemory element based on boron-nitride nanotube-to-peapod transition. Computational Materials Science, 2005, 33, 317-324.	3.0	11
66	Developing nanoscale inertial sensor based on graphite-flake with self-retracting motion. Physica E: Low-Dimensional Systems and Nanostructures, 2013, 50, 44-50.	2.7	11
67	Sensitivity of Graphene-Nanoribbon-Based Accelerometer with Attached Mass. Journal of Computational and Theoretical Nanoscience, 2013, 10, 1886-1891.	0.4	11
68	Distributed multiâ€area WLS state estimation integrating measurements weight update. IET Generation, Transmission and Distribution, 2017, 11, 2552-2561.	2.5	11
69	Electromechanical analysis of suspended carbon nanotubes for memory applications. Nanotechnology, 2006, 17, 2127-2134.	2.6	10
70	The frequency of cantilevered double-wall carbon nanotube resonators as a function of outer wall length. Journal of Physics Condensed Matter, 2009, 21, 385301.	1.8	10
71	Developing a nanotube-based electromechanical-device for measuring angular velocity. Computational Materials Science, 2010, 48, 837-841.	3.0	10
72	Molecular dynamics study on resonance frequency change due to axial-strain-induced torsions of single-walled carbon nanotubes. Physics Letters, Section A: General, Atomic and Solid State Physics, 2011, 375, 1470-1476.	2.1	10

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73	Molecular dynamics study on resonance frequency shifts due to linear density of nanoclusters encapsulated in carbon nanotubes. Physica E: Low-Dimensional Systems and Nanostructures, 2012, 44, 1543-1547.	2.7	10
74	Nonvolatile graphene nanoflake shuttle memory. Physica E: Low-Dimensional Systems and Nanostructures, 2014, 56, 17-23.	2.7	10
75	Gigahertz frequency tuner based on a telescoping double-walled carbon nanotube: molecular dynamics simulations. Molecular Simulation, 2010, 36, 418-424.	2.0	9
76	Molecular Dynamics Study of Nano Mass Transfer in a Vibrating Cantilevered Carbon-Nanotube. Journal of Nanoscience and Nanotechnology, 2011, 11, 5856-5860.	0.9	9
77	One-dimensional self-assembly of C60 molecules on periodically wrinkled graphene sheet: A Monte Carlo approach. Physics Letters, Section A: General, Atomic and Solid State Physics, 2013, 377, 3136-3143.	2.1	9
78	Experimental Measurement of Phase Equilibrium of Hydrate in Water + Ionic Liquid + CH_4 System. Journal of Chemical & Engineering Data, 2016, 61, 543-548.	1.9	9
79	A study on nanotube–substrate interaction effect for fullerene-shuttle-memory based on nanopeapod. Physica E: Low-Dimensional Systems and Nanostructures, 2005, 28, 50-56.	2.7	8
80	Vibrational Analysis of Cantilevered Carbon-Nanotube Resonator with Different Linear Density of Attached Mass: Molecular Dynamics Simulations. Journal of Computational and Theoretical Nanoscience, 2013, 10, 1863-1867.	0.4	8
81	Molecular Dynamics Study of Hypothetical Silicon Nanotubes Using the Tersoff Potential. Journal of Nanoscience and Nanotechnology, 2002, 2, 687-691.	0.9	8
82	Atomistic study of sodium nanowires encapsulated in carbon nanotubes. Physica B: Condensed Matter, 2004, 351, 144-150.	2.7	7
83	Molecular dynamics study on the field effect ion transport in carbon nanotube. Physica E: Low-Dimensional Systems and Nanostructures, 2004, 24, 349-354.	2.7	7
84	A nanoscale field effect data storage of bipolar endo-fullerenes shuttle device. Current Applied Physics, 2005, 5, 609-614.	2.4	7
85	Carbon nanotube shuttle memory device based on singlewall-to-doublewall carbon nanotube transition. Computational Materials Science, 2005, 33, 338-345.	3.0	7
86	A study on resonance frequency of cantilevered triple-walled carbon nanotube with short middle- and outer-walls. Computational Materials Science, 2010, 50, 686-689.	3.0	7
87	Molecular Dynamics Study on Graphene-Based Nanoelectromechanical Relays. Journal of Computational and Theoretical Nanoscience, 2013, 10, 1892-1898.	0.4	7
88	Energy exchange between vibration modes of a graphene nanoflake oscillator: Molecular dynamics study. Current Applied Physics, 2014, 14, 237-244.	2.4	7
89	Phase equilibria of CH 4 and CO 2 hydrates formed from aqueous solutions of glutaric acid and malonic acid. Fluid Phase Equilibria, 2016, 413, 71-74.	2.5	7
90	Potassium Structures in Carbon Nanotubes. Journal of the Physical Society of Japan, 2004, 73, 738-744.	1.6	6

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91	Molecular dynamics study on the C60 oscillator in a graphene nanoribbon trench. Journal of the Korean Physical Society, 2014, 65, 185-189.	0.7	6
92	Developing a nanoelectromechanical shuttle graphene-nanoflake device. Physica E: Low-Dimensional Systems and Nanostructures, 2014, 58, 88-93.	2.7	6
93	Molecular dynamics study of carbon-nanotube shuttle-memory on graphene nanoribbon array. Computational Materials Science, 2014, 93, 164-168.	3.0	5
94	Linear Nanomotor Based on Electromigration of a Nanoparticle Encapsulated in a Carbon Nanotube. Journal of Nanoscience and Nanotechnology, 2011, 11, 1573-1576.	0.9	4
95	Molecular Dynamics Study on Nanoscale Graphene-Flake with Self-Retracting Motion. Journal of Computational and Theoretical Nanoscience, 2013, 10, 1677-1683.	0.4	4
96	Molecular dynamics simulation study on cross-type graphene resonator. Computational Materials Science, 2014, 82, 280-285.	3.0	4
97	Controlling Resonance Frequencies of Double-Walled Carbon-Nanotube Oscillators with Divided Outertubes. Journal of Nanoscience and Nanotechnology, 2014, 14, 6033-6037.	0.9	4
98	An Atomistic Simulation Study of Carbon Nanotube Electromechanical Memory. Journal of Computational and Theoretical Nanoscience, 2005, 2, 348-353.	0.4	3
99	Developing Flapping-Wings Based on Graphene Resonator for Nano-Ornithopter: Molecular Dynamics Simulation. Journal of Computational and Theoretical Nanoscience, 2013, 10, 1669-1676.	0.4	3
100	Ultra-low-energy ion-implant simulation using computational-efficient molecular dynamics schemes and the local damage accumulation model. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2000, 18, 458.	1.6	2
101	Resonance frequency distribution of cantilevered (5,5)(10,10) double-walled carbon nanotube with different intertube lengths. Molecular Simulation, 2011, 37, 18-22.	2.0	2
102	Study on Electromigratively-Telescoping Carbon-Nanotube-Based Reversible-Tuner. Journal of Nanoscience and Nanotechnology, 2011, 11, 6359-6363.	0.9	2
103	Resonant Frequencies of Cantilevered (8,8)(3,3) Double-Walled Carbon Nanotube Resonator with Short Outer Wall. Journal of Nanoscience and Nanotechnology, 2011, 11, 445-448.	0.9	2
104	Velocity-Dependent Frequency of Carbon-Nanotube Oscillators with Intertube Gaps. Journal of Computational and Theoretical Nanoscience, 2013, 10, 1868-1873.	0.4	2
105	Encapsulation Dynamics of a C<SUB>60</SUB> Buckminsterfullerene Into a Graphene Nanoribbon Trench. Journal of Computational and Theoretical Nanoscience, 2014, 11, 2125-2129.	0.4	2
106	Position-dependent mechanical responses of nanoindented graphene nanoribbons: Molecular dynamics study. Journal of the Korean Physical Society, 2015, 67, 625-633.	0.7	2
107	Cu Nanowire Structures Inside Carbon Nanotubes. Materials Science Forum, 2004, 449-452, 1229-1232.	0.3	1
108	Comparison of III- Nitride Nanotubes: Atomistic Simulations. Materials Science Forum, 2004, 449-452, 1185-1188.	0.3	1

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109	Long fine single-wall carbon nanotube growth by Nano-spin-threading: model schematics and simulations. Physica E: Low-Dimensional Systems and Nanostructures, 2005, 25, 347-355.	2.7	1
110	Structural Properties of Potassium Encapsulated in Carbon Nanotubes. Key Engineering Materials, 2005, 277-279, 919-928.	0.4	1
111	Kinetic lattice Monte Carlo simulation study on vacancy diffusion in germanium. Current Applied Physics, 2009, 9, e25-e28.	2.4	1
112	Controlled Transformation of CdTe Nanoparticles Into Nanoribbons via Self-Assembling Process. Journal of Nanoscience and Nanotechnology, 2012, 12, 4309-4312.	0.9	1
113	Molecular Dynamics Simulation on Asymmetric Oscillations of Graphene Nanoribbon. Journal of Computational and Theoretical Nanoscience, 2013, 10, 1874-1878.	0.4	1
114	<I>A Special Issue on</I> Advanced Simulations Techniques and Multiscale Modeling in Nanoscience and Nanotechnology. Journal of Computational and Theoretical Nanoscience, 2013, 10, 1667-1668.	0.4	1
115	Molecular Dynamics Study on Chaotic Motions in Vibrational Behaviors of Bent Single-Layer Graphene Sheet. Journal of Computational and Theoretical Nanoscience, 2013, 10, 1879-1885.	0.4	1
116	Nonlinear Responses of Graphene Nanodisk Pressure Sensor. Journal of Computational and Theoretical Nanoscience, 2015, 12, 425-430.	0.4	1
117	Conversion of CdTe Nanoparticles into Nanoribbons via Self-Assembly. Korean Chemical Engineering Research, 2012, 50, 1082-1085.	0.2	1
118	Atomic Scale Simulations of Silicon Nanotubes under Axial Compression: AFM Application. AIP Conference Proceedings, 2003, , .	0.4	0
119	Characterization of nanotube nonvolatile memory device. , 2008, , .		0
120	Molecular Dynamics Simulations of an Inertia Sensor with Carbon Nanotube Oscillators. Journal of Nanoscience and Nanotechnology, 2009, 9, 6943-7.	0.9	0
121	Simulation analysis for the ring patterned void defect in silicon mono crystal. , 2010, , .		0
122	Modeling and simulation of frequency-changeable carbon-nanotube oscillators via molecular dynamics simulations. , 2010, , .		0
123	Engineering the resonance frequency of carbon-nanotube oscillators via a telescoping outertube. Journal of the Korean Physical Society, 2014, 64, 1586-1589.	0.7	0
124	Molecular dynamics simulation study of a carbon-nanotube oscillator in a graphene-nanoribbon trench. Journal of the Korean Physical Society, 2016, 69, 426-434.	0.7	0
125	Molecular Dynamics Study on Graphene-Nanoflake Sensor Sandwiched Between Crossed Graphene-Nanoribbon Junctions. Journal of Nanoscience and Nanotechnology, 2021, 21, 3887-3890.	0.9	0
126	Molecular Dynamics Simulations on Melting Properties of Free Icosahedral Copper Clusters. Transactions on Electrical and Electronic Materials, 2003, 4, 1-6.	1.9	0

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127	Self-assembly of CdTe Nanowires for Solar Cells Under a 550Ânm Wavelength Light. Journal of Electrical Engineering and Technology, 2022, 17, 1481-1486.	2.0	0