

# Bumkyoo Choi

## List of Publications by Year in descending order

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Version: 2024-02-01

40  
papers

603  
citations

567144

15  
h-index

610775

24  
g-index

40  
all docs

40  
docs citations

40  
times ranked

904  
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of a piezoelectric energy harvesting system for implementing wireless sensors on the tires. <i>Energy Conversion and Management</i> , 2014, 78, 32-38.	4.4	136
2	Development of the MHD micropump with mixing function. <i>Sensors and Actuators A: Physical</i> , 2011, 165, 439-445.	2.0	48
3	Stretching and Twisting Sensing With Liquid-Metal Strain Gauges Printed on Silicone Elastomers. <i>IEEE Sensors Journal</i> , 2015, 15, 6077-6078.	2.4	48
4	A study on the acoustic energy harvesting with Helmholtz resonator and piezoelectric cantilevers. <i>International Journal of Precision Engineering and Manufacturing</i> , 2013, 14, 1629-1635.	1.1	37
5	A study on the MHD (magnetohydrodynamic) micropump with side-walled electrodes. <i>Journal of Mechanical Science and Technology</i> , 2009, 23, 739-749.	0.7	30
6	Theoretical and experimental investigation of the trapped air effect on air-sealed capacitive pressure sensor. <i>Sensors and Actuators A: Physical</i> , 2015, 221, 104-114.	2.0	27
7	Sensitivity-Enhanced $\frac{dP}{dV}$ Pressure Sensor for Wireless Bladder Pressure Monitoring. <i>IEEE Sensors Journal</i> , 2016, 16, 4715-4724.	2.4	24
8	Flexible piezoresistive pulse sensor using biomimetic PDMS mold replicated negatively from shark skin and PEDOT:PSS thin film. <i>Sensors and Actuators A: Physical</i> , 2019, 286, 107-114.	2.0	23
9	Strain-based piezoelectric energy harvesting for wireless sensor systems in a tire. <i>Journal of Intelligent Material Systems and Structures</i> , 2015, 26, 1404-1416.	1.4	22
10	A study on the novel micromixer with chaotic flows. <i>Microsystem Technologies</i> , 2009, 15, 269-277.	1.2	20
11	Electrical detection-based analytic biodevice technology. <i>Biochip Journal</i> , 2010, 4, 1-8.	2.5	19
12	Biocompatibility of a PDMS-coated micro-device: Bladder volume monitoring sensor. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2012, 30, 242-249.	2.0	18
13	Improved Capacitive Pressure Sensors Based on Liquid Alloy and Silicone Elastomer. <i>IEEE Sensors Journal</i> , 2015, 15, 4180-4181.	2.4	16
14	A study on the tire deformation sensor for intelligent tires. <i>International Journal of Precision Engineering and Manufacturing</i> , 2014, 15, 155-160.	1.1	15
15	The Potential Role of Polymethyl Methacrylate as a New Packaging Material for the Implantable Medical Device in the Bladder. <i>BioMed Research International</i> , 2015, 2015, 1-8.	0.9	15
16	3D printed fluidic valves for remote operation via external magnetic field. <i>International Journal of Precision Engineering and Manufacturing</i> , 2016, 17, 937-942.	1.1	15
17	Dynamic Characteristics of Vertically Coupled Structures and the Design of a Decoupled Micro Gyroscope. <i>Sensors</i> , 2008, 8, 3706-3718.	2.1	11
18	Fabrication, experiment of a microactuator using magnetic fluid for micropump application. <i>Microsystem Technologies</i> , 2006, 12, 1085-1091.	1.2	10

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19	A study on the piezoelectric energy conversion system using motor vibration. International Journal of Precision Engineering and Manufacturing, 2012, 13, 573-579.	1.1	10
20	Comparison of in vivo biocompatibilities between parylene-C and polydimethylsiloxane for implantable microelectronic devices. Bulletin of Materials Science, 2013, 36, 1127-1132.	0.8	9
21	Fabrication and characterization of strain gauge integrated polymeric diaphragm pressure sensors. International Journal of Precision Engineering and Manufacturing, 2013, 14, 2003-2008.	1.1	9
22	A study on the fluid mechanical urinary bladder simulator and reproduction of human urodynamics. International Journal of Precision Engineering and Manufacturing, 2011, 12, 679-685.	1.1	6
23	Evaluation of sensitivity and linearity for touch-mode capacitive pressure sensor measuring the inner bladder pressure. International Journal of Precision Engineering and Manufacturing, 2011, 12, 907-912.	1.1	5
24	Vibration Mode-Dependent Energy Harvesting Characteristics of Magnetolectric Composite Cantilevers. IEEE Sensors Journal, 2012, 12, 3271-3272.	2.4	5
25	Design and fabrication of implantable pressure sensing resistor sensor for human bladder monitoring system. Microsystem Technologies, 2011, 17, 1453-1458.	1.2	4
26	Energy harvesting for bladder pressure sensor using parametric amplification phenomenon of PVDF bimorph cantilever. , 2013, , .		3
27	Anterosuperior protraction of maxillae using the extraoral device, RAMPA; finite element method. Computer Methods in Biomechanics and Biomedical Engineering, 2018, 21, 722-729.	0.9	3
28	Numerical Analysis of Touch Mode Capacitive Pressure Sensor Using Graphical User Interface. Lecture Notes in Electrical Engineering, 2013, , 371-377.	0.3	3
29	A continuous peristaltic micropump using magnetic fluid. , 0, , .		2
30	Effects of an additional air chamber on the sensitivity of a capacitive pressure sensor. Microsystem Technologies, 2017, 23, 4637-4644.	1.2	2
31	Finite element simulations of the effects of an extraoral device, RAMPA, on anterosuperior protraction of the maxilla and comparison with gHu-1 intraoral device. Angle Orthodontist, 2021, 91, 804-814.	1.1	2
32	The viscosity deviation of magnetic fluids for microactuator due to temperature changes. , 0, , .		1
33	A Monolithically Packaged Cordless Sensor System Embedding MEMS A/D Converter and Saw Transponder. , 0, , .		1
34	The energy conversion system with piezoelectric effect for wireless sensor network. , 2008, , .		1
35	Fabrication and evaluation of implantable pressure sensor using strain gauge. , 2012, , .		1
36	Fabrication and experiment of polymeric diaphragm pressure sensors. , 2013, , .		1

#	ARTICLE	IF	CITATIONS
37	Preliminary Report about the Efficacy of Prototype Pressure Sensor for the Real-Time Intravesical Pressure Monitoring in the Rabbit. Korean Journal of Andrology, 2012, 30, 80.	0.1	1
38	The development of bladder simulator based on urodynamics study. , 2011, , .		0
39	Fabrication and experiment of the hemodialysis unit device. , 2013, , .		0
40	Finite element and clinical analyses of effects of a new intraoral device (VomPress) combined with extraoral RAMPA on improving the overjet of craniofacial complex. Computer Methods in Biomechanics and Biomedical Engineering, 2021, , 1-12.	0.9	0