

Soohyun Kim

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

92
papers

1,052
citations

16
h-index

29
g-index

119
ext. papers

1,332
ext. citations

3.8
avg, IF

4.53
L-index

#	Paper	IF	Citations
92	Highly Damage-Resistant Thin Film Saturable Absorber Based on Mechanically Functionalized SWCNTs.. <i>Nanoscale Research Letters</i> , 2022 , 17, 11	5	
91	Development of quadruped robot for inspection of underground pipelines in nuclear power plants. <i>Electronics Letters</i> , 2022 , 58, 234-236	1.1	
90	Generalized Control Framework for Exoskeleton Robots by Interaction Force Feedback Control. <i>International Journal of Control, Automation and Systems</i> , 2021 , 19, 3419	2.9	
89	Neural Network Based Contact Force Control Algorithm for Walking Robots. <i>Sensors</i> , 2021 , 21,	3.8	2
88	Modulated Motion Blur-Based Vehicle Body Velocity and Pose Estimation Using an Optical Image Modulator. <i>IEEE Transactions on Vehicular Technology</i> , 2021 , 70, 8744-8754	6.8	
87	An H _∞ Design of Disturbance Observer for a Class of Linear Time-invariant Single-input/Single-output Systems. <i>International Journal of Control, Automation and Systems</i> , 2020 , 18, 1662-1670	2.9	3
86	Accurate thickness measurement using a single terahertz pulse obtained in ambient atmosphere. <i>Optics Communications</i> , 2020 , 462, 125276	2	1
85	Practical Approach for Controlling Optical Image Stabilization System. <i>International Journal of Control, Automation and Systems</i> , 2020 , 18, 824-833	2.9	4
84	A simple terahertz time-domain signal reconstruction algorithm for thickness measurement in real-world applications. <i>Measurement: Journal of the International Measurement Confederation</i> , 2020 , 151, 107201	4.6	2
83	A Novel Passive Quasi-Zero Stiffness Isolator for Ultra-Precision Measurement Systems. <i>International Journal of Precision Engineering and Manufacturing</i> , 2019 , 20, 1573-1580	1.7	9
82	A Study on the Effects of Multiwall Carbon Nanotubes on Dynamic Stiffness of Hydrophilic-base Magnetorheological Gel. <i>Current Nanoscience</i> , 2019 , 15, 319-323	1.4	12
81	Effective image enhancement techniques for fog-affected indoor and outdoor images. <i>IET Image Processing</i> , 2018 , 12, 465-471	1.7	19
80	Controller Design of an Electric Power Steering System. <i>IEEE Transactions on Control Systems Technology</i> , 2018 , 26, 748-755	4.8	24
79	A passively adaptive variable-radius pulley for a tendon-driven robotic joint. <i>Mechanism and Machine Theory</i> , 2018 , 128, 110-124	4	3
78	Note: Rotor design optimization for vacuum chamber-free ultracentrifuge. <i>Review of Scientific Instruments</i> , 2018 , 89, 116107	1.7	1
77	Designing Anthropomorphic Robot Hand With Active Dual-Mode Twisted String Actuation Mechanism and Tiny Tension Sensors. <i>IEEE Robotics and Automation Letters</i> , 2017 , 2, 1571-1578	4.2	43
76	A Novel Fabrication of 3.6 nm High Graphene Nanochannels for Ultrafast Ion Transport. <i>Advanced Materials</i> , 2017 , 29, 1605854	24	15

75	Investigation of fiber Bragg grating as a spectral notch shaper for single-pulse coherent anti-Stokes Raman spectroscopy. <i>Optics Communications</i> , 2017 , 383, 107-112	2	3
74	Highly enhanced compatibility of human brain vascular pericyte cells on monolayer graphene. <i>Bioengineered</i> , 2017 , 8, 85-91	5.7	3
73	Note: Hybrid active/passive force feedback actuator using hydrostatic transmission. <i>Review of Scientific Instruments</i> , 2017 , 88, 126103	1.7	
72	Development of a vehicle body velocity sensor using Modulated Motion Blur 2017 ,		1
71	Note: Reconfigurable pelvis mechanism for efficient multi-locomotion: Biped and quadruped walking. <i>Review of Scientific Instruments</i> , 2017 , 88, 126104	1.7	1
70	Multiplex CARS imaging with spectral notch shaped laser pulses delivered by optical fibers. <i>Optics Express</i> , 2017 , 25, 32178-32188	3.3	2
69	Highly Enhanced Electromechanical Stability of Large-Area Graphene with Increased Interfacial Adhesion Energy by Electrothermal-Direct Transfer for Transparent Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 23396-403	9.5	3
68	Development of the crossbow-type launcher for a small reconnaissance robot based on the axiomatic theorem. <i>Journal of Advanced Mechanical Design, Systems and Manufacturing</i> , 2016 , 10, JAMDSM0084-JAMDSM0086	9.6	
67	Design of modular gripper for explosive ordinance disposal robot manipulator based on modified dual-mode twisting actuation. <i>International Journal of Control, Automation and Systems</i> , 2016 , 14, 1322-1330	2.9	3
66	Highly Increased Flow-Induced Power Generation on Plasmonically Carbonized Single-Walled Carbon Nanotube . <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 29877-29882	9.5	13
65	Design and control of antagonistic robot joint with Twisted String Actuators 2016 ,		5
64	Bioinspired Image Stabilization Control Using the Adaptive Gain Adjustment Scheme of Vestibulo-Ocular Reflex. <i>IEEE/ASME Transactions on Mechatronics</i> , 2016 , 21, 922-930	5.5	4
63	Single-pulse coherent anti-Stokes Raman spectroscopy via fiber Bragg grating 2016 ,		1
62	Selective atomic layer deposition onto directly transferred monolayer graphene. <i>Materials Letters</i> , 2016 , 165, 45-49	3.3	10
61	Estimating Clothing Thermal Insulation Using an Infrared Camera. <i>Sensors</i> , 2016 , 16,	3.8	28
60	Two-channel electrotactile stimulation for sensory feedback of fingers of prosthesis 2016 ,		6
59	Automatic parking system using background subtraction with CCTV environment international conference on control, automation and systems (ICCAS 2016) 2016 ,		1
58	Note: Position/torque control of antagonistic robot joint with high-compliant twisted string actuators (TSAs). <i>Review of Scientific Instruments</i> , 2016 , 87, 126107	1.7	2

57	Nondestructive evaluation of multilayered paint films in ambient atmosphere using terahertz reflection spectroscopy. <i>NDT and E International</i> , 2016 , 80, 71-76	4.1	9
56	Development of a robotic finger with an active dual-mode twisting actuation and a miniature tendon tension sensor 2016 ,		7
55	Nondestructive Material Characterization in the Terahertz Band by Selective Extraction of Sample-Induced Echo Signals. <i>Journal of Nondestructive Evaluation</i> , 2015 , 34, 1	2.1	8
54	Polarization insensitive graphene saturable absorbers using etched fiber for highly stable ultrafast fiber lasers. <i>Optics Express</i> , 2015 , 23, 22116-22	3.3	16
53	A Portable and Remote 6-DOF Pose Sensor System With a Long Measurement Range Based on 1-D Laser Sensors. <i>IEEE Transactions on Industrial Electronics</i> , 2015 , 62, 5722-5729	8.9	16
52	Morphology-based guidance line extraction for an autonomous weeding robot in paddy fields. <i>Computers and Electronics in Agriculture</i> , 2015 , 113, 266-274	6.5	42
51	Supercontinuum notch shaping via fiber Bragg grating for the excitation source in coherent anti-Stokes Raman spectroscopy 2015 ,		2
50	A novel disturbance observer based robust current-control for a PMSM drive system 2015 ,		2
49	Design and Evaluation of the Unmanned Technology Research Center Exoskeleton Implementing the Precedence Walking Assistance Mechanism. <i>Journal of Electrical Engineering and Technology</i> , 2015 , 10, 2376-2383	1.4	3
48	Design of biped robot inspired by cats for fast running. <i>Electronics Letters</i> , 2014 , 50, 730-731	1.1	2
47	The Role of Relative Spinal Motion during Feline Galloping for Speed Performance. <i>Journal of Bionic Engineering</i> , 2014 , 11, 517-528	2.7	6
46	Verification of the peak time approach for detection of step initiation using the UTRCEXO. <i>International Journal of Control, Automation and Systems</i> , 2014 , 12, 1070-1076	2.9	2
45	A novel actuation for a robotic fish using a flexible joint. <i>International Journal of Control, Automation and Systems</i> , 2014 , 12, 878-885	2.9	2
44	Structural Optimization of a Novel 6-DOF Pose Sensor System for Enhancing Noise Robustness at a Long Distance. <i>IEEE Transactions on Industrial Electronics</i> , 2014 , 61, 5622-5631	8.9	10
43	Design of a cat-inspired robotic leg for fast running. <i>Advanced Robotics</i> , 2014 , 28, 1587-1598	1.7	13
42	Portable serial robot manipulator with distributed actuation mechanism 2014 ,		2
41	Design improvement of the three-beam detector towards a precise long-range 6-degree of freedom motion sensor system. <i>Review of Scientific Instruments</i> , 2014 , 85, 015004	1.7	7
40	Controllable pneumatic generator based on the catalytic decomposition of hydrogen peroxide. <i>Review of Scientific Instruments</i> , 2014 , 85, 075109	1.7	4

39	Precedence walking assistance mechanism for exoskeletons with improved detection of step initiation based on gait analysis. <i>Journal of Mechanical Science and Technology</i> , 2014 , 28, 4353-4359	1.6	0
38	Graphene: Ultraconformal Contact Transfer of Monolayer Graphene on Metal to Various Substrates (Adv. Mater. 37/2014). <i>Advanced Materials</i> , 2014 , 26, 6520-6520	24	
37	Remote position detection of steel coils using 2D laser scanners: Two-line-tracker 2014 ,		2
36	Auto-positioning of sliding planes based on virtual force. <i>International Journal of Control, Automation and Systems</i> , 2013 , 11, 798-804	2.9	3
35	Note: Dynamic analysis of a robotic fish motion with a caudal fin with vertical phase differences. <i>Review of Scientific Instruments</i> , 2013 , 84, 036108	1.7	2
34	Note: A compact three-axis optical force/torque sensor using photo-interrupters. <i>Review of Scientific Instruments</i> , 2013 , 84, 126109	1.7	23
33	Flow-induced voltage generation over monolayer graphene in the presence of herringbone grooves. <i>Nanoscale Research Letters</i> , 2013 , 8, 487	5	19
32	Vacuum chamber-free centrifuge with magnetic bearings. <i>Review of Scientific Instruments</i> , 2013 , 84, 095106		7
31	Generalized design of disturbance observer for non-minimum phase system using an H-infinity approach 2013 ,		1
30	Sliding Mechanism of Lateral Thermosonic Process With Anisotropic Conductive Film for High Productivity and High Reliability. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2013 , 3, 205-212	1.7	3
29	Weighted virtual tangential vector algorithm for local path planning of mobile robots. <i>Electronics Letters</i> , 2013 , 49, 255-256	1.1	5
28	SoftGait: compliant walking assistance via pneumatically actuated robot legs. <i>Electronics Letters</i> , 2013 , 49, 1208-1209	1.1	5
27	Tuning the S-curve motion profile in short distance case 2013 ,		2
26	Flow-induced voltage generation in non-ionic liquids over monolayer graphene. <i>Applied Physics Letters</i> , 2013 , 102, 063116	3.4	42
25	Compound Explosives Detection and Component Analysis via Terahertz Time-Domain Spectroscopy. <i>Journal of the Optical Society of Korea</i> , 2013 , 17, 454-460		25
24	Developing Accurate Long-Distance 6-DOF Motion Detection With One-Dimensional Laser Sensors: Three-Beam Detection System. <i>IEEE Transactions on Industrial Electronics</i> , 2012 , 1-1	8.9	14
23	Developing a robust sensing system for remote relative 6-DOF motion using 1-D laser sensors 2012 ,		5
22	Advanced sensing system of crane spreader motion(for Mobile Harbor) 2012 ,		3

21	Structure optimization of 1-D laser sensors assembly for robust 6-DOF measurement 2012,		1
20	A Robot Finger Design Using a Dual-Mode Twisting Mechanism to Achieve High-Speed Motion and Large Grasping Force. <i>IEEE Transactions on Robotics</i> , 2012 , 28, 1398-1405	6.5	48
19	Degradation of optical properties of a film-type single-wall carbon nanotubes saturable absorber (SWNT-SA) with an Er-doped all-fiber laser. <i>Optics Express</i> , 2012 , 20, 12966-74	3.3	34
18	Ground following locomotion of a robot inspired by pill bugs 2011,		1
17	Actuation of a robotic fish caudal fin for low reaction torque. <i>Review of Scientific Instruments</i> , 2011 , 82, 075114	1.7	6
16	Flow-induced voltage generation in high-purity metallic and semiconducting carbon nanotubes. <i>Applied Physics Letters</i> , 2011 , 99, 104103	3.4	34
15	Dielectric Electroactive Polymer energy harvesting system forward path design for different vibration input patterns 2011,		2
14	Vibration isolation strategies using magneto-rheological elastomer for a miniature cryogenic cooler in space application 2010,		9
13	Disturbance Observer for Estimating Higher Order Disturbances in Time Series Expansion. <i>IEEE Transactions on Automatic Control</i> , 2010 , 55, 1905-1911	5.9	196
12	A linear air bearing stage with active magnetic preloads for ultraprecise straight motion. <i>Precision Engineering</i> , 2010 , 34, 186-194	2.9	30
11	Experimental determination of the spring constant of an individual multiwalled carbon nanotube cantilever using fluorescence measurement. <i>Applied Physics Letters</i> , 2009 , 95, 013110	3.4	8
10	Design of a prism to compensate the image-shifting error of the Acousto-Optic tunable filter. <i>Optics Express</i> , 2008 , 16, 17138-47	3.3	16
9	Development of magnetically preloaded air bearings for a linear slide: active compensation of three degrees of freedom motion errors. <i>Review of Scientific Instruments</i> , 2008 , 79, 036104	1.7	4
8	Independent traction control for uneven terrain using stick-slip phenomenon: application to a stair climbing robot. <i>Autonomous Robots</i> , 2007 , 23, 3-18	3	10
7	Development of the piezoelectric motor using momentum generated by bimorphs. <i>Review of Scientific Instruments</i> , 2005 , 76, 105109	1.7	2
6	Measurement of the thickness profile of a transparent thin film deposited upon a pattern structure with an acousto-optic tunablefilter. <i>Optics Letters</i> , 2002 , 27, 1893-5	3	58
5	Six-degree-of-freedom displacement measurement system using a diffraction grating. <i>Review of Scientific Instruments</i> , 2000 , 71, 3214-3219	1.7	44
4	Moving fringe detection for ultra precision position measurement		1

3	High sensitivity inductive sensing system for position measurement	6
2	Compensation of surface inclination for detecting in optical triangulation sensors	1
1	Control of tendon-driven(Twisted-string Actuator) robotic joint with adaptive variable-radius pulley	0