Ki-Uk Kyung

List of Publications by Year
in descending order

87	3,841	304368 22	138251 58
papers	citations	h-index	g-index

90	90	90	5509
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Sigmoidal Auxiliary Tendon-Driven Mechanism Reinforcing Structural Stiffness of Hyper-Redundant Manipulator for Endoscopic Surgery. Soft Robotics, 2023, 10, 234-245.	4.6	7
2	Electroadhesion-Based High-Payload Soft Gripper With Mechanically Strengthened Structure. IEEE Transactions on Industrial Electronics, 2022, 69, 642-651.	5.2	28
3	Wrist Assisting Soft Wearable Robot With Stretchable Coolant Vessel Integrated SMA Muscle. IEEE/ASME Transactions on Mechatronics, 2022, 27, 1046-1058.	3.7	32
4	Development of a Three-Axis Monolithic Flexure-Based Ground Reaction Force Sensor for Various Gait Analysis. IEEE Robotics and Automation Letters, 2022, 7, 4118-4125.	3.3	7
5	Soft Wearable Robot With Shape Memory Alloy (SMA)-Based Artificial Muscle for Assisting With Elbow Flexion and Forearm Supination/Pronation. IEEE Robotics and Automation Letters, 2022, 7, 6028-6035.	3.3	15
6	A Wearable Soft Tactile Actuator With High Output Force for Fingertip Interaction. IEEE Access, 2021, 9, 30206-30215.	2.6	21
7	Improved electroadhesive force by using fumed alumina/PDMS composites. Smart Materials and Structures, 2021, 30, 035007.	1.8	3
8	A Sigmoid-Colon-Straightening Soft Actuator With Peristaltic Motion for Colonoscopy Insertion Assistance: Easycolon. IEEE Robotics and Automation Letters, 2021, 6, 3577-3584.	3.3	5
9	Highâ€Output Force Electrohydraulic Actuator Powered by Induced Interfacial Charges. Advanced Intelligent Systems, 2021, 3, 2100006.	3.3	4
10	A highly stretchable optical strain sensor monitoring dynamically large strain for deformation-controllable soft actuator. Smart Materials and Structures, 2021, 30, 105020.	1.8	8
11	Wide-Bandwidth Soft Vibrotactile Interface Using Electrohydraulic Actuator for Haptic Steering Wheel Application. IEEE Robotics and Automation Letters, 2021, 6, 8245-8252.	3.3	6
12	Highly contrastive, real-time modulation of light intensity by reversible stress-whitening of spontaneously formed nanocomposites: application to wearable strain sensors. Journal of Materials Chemistry C, 2021, 9, 8496-8505.	2.7	2
13	Long-term Multiple Time-Constant Model of a Spring Roll Dielectric Elastomer Actuator under Dynamic Loading*. , 2021, , .		0
14	Correction to â€œA Sigmoid-Colon-Straightening Soft Actuator With Peristaltic Motion for Colonoscopy Insertion Assistance: Easycolonâ€•[Apr 21 3577-3584]. IEEE Robotics and Automation Letters, 2021, 6, 5736-5736.	3.3	0
15	A Soft and Transparent Visuo-Haptic Interface Pursuing Wearable Devices. IEEE Transactions on Industrial Electronics, 2020, 67, 717-724.	5.2	40
16	Modeling and Analysis of SMA Actuator Embedded in Stretchable Coolant Vascular Pursuing Artificial Muscles. , 2020, , .		14
17	Mechanically Strengthened Electroadhesion based Soft Gripper with Multi-layered Dielectric Elastomer Actuator. , 2020, , .		3
18	Dielectric Elastomer Actuator for Soft Robotics Applications and Challenges. Applied Sciences (Switzerland), 2020, 10, 640.	1.3	129

#	Article	IF	Citations
19	Self-sensing Soft Tactile Actuator for Fingertip Interface. , 2020, , .		1
20	A piecewise controllable tunable lens with large aperture for eyewear application. Smart Materials and Structures, 2019, 28, 124001.	1.8	3
21	A Soft Tactile Display Using Dielectric Elastomer Actuator for Fingertip Interaction. Lecture Notes in Electrical Engineering, 2019, , 15-17.	0.3	0
22	Soft Sensors and Actuators for Designing New Human-Robot/Machine Interaction Interfaces. , 2019, , .		3
23	Design of Shape Memory Alloy-Based Soft Wearable Robot for Assisting Wrist Motion. Applied Sciences (Switzerland), 2019, 9, 4025.	1.3	55
24	Electro-Active Polymer Based Soft Tactile Interface for Wearable Devices. IEEE Transactions on Haptics, 2018, 11, 15-21.	1.8	92
25	High-pressure endurable flexible tactile actuator based on microstructured dielectric elastomer. Applied Physics Letters, 2018, 112, .	1.5	32
26	Applications of Smart Materials to Haptics. IEEE Transactions on Haptics, 2018, 11, 2-4.	1.8	12
27	A Robust Soft Lens for Tunable Camera Application Using Dielectric Elastomer Actuators. Soft Robotics, 2018, 5, 777-782.	4.6	36
28	Flexible transparent displays based on core/shell upconversion nanophosphor-incorporated polymer waveguides. Scientific Reports, 2017, 7, 45659.	1.6	25
29	A variation in wrinkle structures of UV-cured films with chemical structures of prepolymers. Materials Letters, 2017, 199, 105-109.	1.3	9
30	Perspective and potential of smart optical materials. Smart Materials and Structures, 2017, 26, 093001.	1.8	26
31	Electrically tunable binary phase Fresnel lens based on a dielectric elastomer actuator. Optics Express, 2017, 25, 23801.	1.7	34
32	A New Systematic Vibrotactile Rendering for Touchscreen Mobile Devices. Mobile Information Systems, 2016, 2016, 1-7.	0.4	0
33	Stretchable, Skinâ€Mountable, and Wearable Strain Sensors and Their Potential Applications: A Review. Advanced Functional Materials, 2016, 26, 1678-1698.	7.8	2,340
34	An electro-active polymer based lens module for dynamically varying focal system. Applied Physics Letters, 2016, 109, 141908.	1.5	14
35	Sensitive and Stretchable Strain Sensors Based on Silver Nanowires Network. Journal of Nanoscience and Nanotechnology, 2016, 16, 8614-8617.	0.9	4
36	Structure modulated electrostatic deformable mirror for focus and geometry control. Optics Express, 2016, 24, 55.	1.7	10

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37	Wrinkle structures formed by formulating UV-crosslinkable liquid prepolymers. Polymer, 2016, 99, 447-452.	1.8	12
38	Highâ€Performance Flexible Multilayer MoS₂ Transistors on Solutionâ€Based Polyimide Substrates. Advanced Functional Materials, 2016, 26, 2426-2434.	7.8	75
39	Mechanical and psychophysical performance evaluation of a haptic actuator based on magnetorheological fluids. Journal of Intelligent Material Systems and Structures, 2016, 27, 1967-1975.	1.4	9
40	Pressure Sensor using Vertical Coupling of Optical Waveguides. , 2016, , .		0
41	A thin film active-lens with translational control for dynamically programmable optical zoom. Applied Physics Letters, 2015, 107, .	1.5	27
42	Haptic interface design for future interactive devices. , 2015, , .		0
43	A $alpha $ -Si:H Thin-Film Phototransistor for a Near-Infrared Touch Sensor. IEEE Electron Device Letters, 2015, 36, 41-43.	2.2	17
44	Semi-plenary talk: Transition: From stiffness to softness. , 2015, , .		0
45	A transparent visuo-haptic input device with optical waveguide based thin film display, sensor and surface actuator. Sensors and Actuators A: Physical, 2015, 233, 47-53.	2.0	6
46	Design, simulation, and testing of a magnetorheological fluidâ€“based haptic actuator for mobile applications. Journal of Intelligent Material Systems and Structures, 2015, 26, 1670-1678.	1.4	9
47	Secured radio communication based on fusion of cryptography algorithms. , 2015, , .		1
48	A Conceptual Design of a Smart Knob with Torque Feedback for Mobile Applications. Lecture Notes in Electrical Engineering, 2015, , 177-179.	0.3	3
49	Highly Flexible and Transparent Skin-like Tactile Sensor. Lecture Notes in Electrical Engineering, 2015, , 187-189.	0.3	7
50	Polymerâ€Based Sensors: Polymerâ€Waveguideâ€Based Flexible Tactile Sensor Array for Dynamic Response (Adv. Mater. 26/2014). Advanced Materials, 2014, 26, 4473-4473.	11.1	1
51	Thin film display based on polymer waveguides. Optics Express, 2014, 22, 23433.	1.7	5
52	Polymerâ€Waveguideâ€Based Flexible Tactile Sensor Array for Dynamic Response. Advanced Materials, 2014, 26, 4474-4480.	11.1	130
53	Polymer-Based Flexible Visuo-Haptic Display. IEEE/ASME Transactions on Mechatronics, 2014, 19, 1463-1469.	3.7	31
54	Effect of Tactile Feedback for Button GUI on Mobile Touch Devices. ETRI Journal, 2014, 36, 979-987.	1.2	8

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55	Haptic interaction with user manipulation for smartphone. , 2013, , .		3
56	Photocrosslinkable liquid prepolymers for flexible waveguide display applications. Journal of Materials Chemistry C, 2013, 1, 2983.	2.7	10
57	Flexible visuo-haptic display. , 2013, , .		0
58	Design and Simulation of an MR Fluids-Based Haptic Actuator for Mobile Applications. , 2013, , .		1
59	Background display for visually impaired people in mobile touch devices. , 2013, , .		2
60	Tactile feedback for button GUI on touch devices. , 2012, , .		5
61	wUbi-Pen: Sensory Feedback Stylus Interacting with Graphical User Interface. Presence: Teleoperators and Virtual Environments, 2012, 21, 142-155.	0.3	10
62	Transparent and flexible force sensor array based on optical waveguide. Optics Express, 2012, 20, 14486.	1.7	22
63	Application of magnetorheological fluids for a miniature haptic button: Experimental evaluation. Journal of Intelligent Material Systems and Structures, 2012, 23, 1025-1031.	1.4	33
64	Design of a new miniature haptic button based on magneto-rheological fluids. , 2012, , .		3
65	Effect of frequency difference on sensitivity of beats perception. Experimental Brain Research, 2012, 216, 11-19.	0.7	15
66	SHIFT: Interactive Smartphone Bumper Case. Lecture Notes in Computer Science, 2012, , 91-96.	1.0	7
67	Interactive remote controller for IPTV. , 2011, , .		0
68	Presentation of Surface Height Profiles Based on Frequency Modulation at Constant Amplitude Using Vibrotactile Elements. Advanced Robotics, 2011, 25, 2065-2081.	1.1	6
69	TAXEL: Initial progress toward self-morphing visio-haptic interface. , 2011, , .		4
70	Precise manipulation of GUI on a touch screen with haptic cues. , 2009, , .		22
71	Ubi-Pen: A Haptic Interface with Texture and Vibrotactile Display. IEEE Computer Graphics and Applications, 2009, 29, 56-64.	1.0	68
72	Haptic Stylus and Empirical Studies on Braille, Button, and Texture Display. Journal of Biomedicine and Biotechnology, 2008, 2008, 1-11.	3.0	22

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73	Design and Applications of a Pen-Like Haptic Interface with Texture and Vibrotactile Display. , 2007, , .		6
74	Pen-like Haptic Interface and Its Application on Touch Screen. , 2007, , .		8
75	Real-time area-based haptic rendering and the augmented tactile display device for a palpation simulator. Advanced Robotics, 2007, 21, 961-981.	1.1	51
76	Texture Display Mouse: Vibrotactile Pattern and Roughness Display. IEEE/ASME Transactions on Mechatronics, 2007, 12, 356-360.	3.7	26
77	Ubi-Pen: Development of a Compact Tactile Display Module and Its Application to a Haptic Stylus. , 2007, , .		26
78	Development of Quantitative Tactile Display Device to Provide Both Pin- Array-Type Tactile Feedback and Thermal Feedback. , 2007, , .		23
79	Comparison of Force, Tactile and Vibrotactile Feedback for Texture Representation Using a Combined Haptic Feedback Interface. , 2007, , 34-43.		6
80	A Novel Interactive Mouse System for Holistic Haptic Display in a Human-Computer Interface. International Journal of Human-Computer Interaction, 2006, 20, 247-270.	3.3	20
81	A compact planar distributed tactile display and effects of frequency on texture judgment. Advanced Robotics, 2006, 20, 563-580.	1.1	32
82	Multi-sensory Perception of Roughness: Empirical Study on Effects of Vibrotactile Feedback and Auditory Feedback in Texture Perception. Lecture Notes in Computer Science, 2006, , 406-415.	1.0	6
83	Real-Time Area-Based Haptic Rendering for a Palpation Simulator. Lecture Notes in Computer Science, 2006, , 132-141.	1.0	3
84	Design of an integrated tactile display system. , 2004, , .		13
85	Interactive Mouse Systems Providing Haptic Feedback During the Exploration in Virtual Environment. Lecture Notes in Computer Science, 2004, , 136-146.	1.0	8
86	Realistic force reflection in a spine biopsy simulator. , 0, , .		16
87	Force feedback for a spine biopsy simulator with volume graphic model. , 0, , .		3