

Ki-Uk Kyung

List of Publications by Year in descending order

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87
papers

3,841
citations

304602

22
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138417

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all docs

90
docs citations

90
times ranked

5509
citing authors

#	ARTICLE	IF	CITATIONS
1	Stretchable, Skin-Mountable, and Wearable Strain Sensors and Their Potential Applications: A Review. <i>Advanced Functional Materials</i> , 2016, 26, 1678-1698.	7.8	2,340
2	Polymer-Waveguide-Based Flexible Tactile Sensor Array for Dynamic Response. <i>Advanced Materials</i> , 2014, 26, 4474-4480.	11.1	130
3	Dielectric Elastomer Actuator for Soft Robotics Applications and Challenges. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 640.	1.3	129
4	Electro-Active Polymer Based Soft Tactile Interface for Wearable Devices. <i>IEEE Transactions on Haptics</i> , 2018, 11, 15-21.	1.8	92
5	High-Performance Flexible Multilayer MoS ₂ Transistors on Solution-Based Polyimide Substrates. <i>Advanced Functional Materials</i> , 2016, 26, 2426-2434.	7.8	75
6	Ubi-Pen: A Haptic Interface with Texture and Vibrotactile Display. <i>IEEE Computer Graphics and Applications</i> , 2009, 29, 56-64.	1.0	68
7	Design of Shape Memory Alloy-Based Soft Wearable Robot for Assisting Wrist Motion. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 4025.	1.3	55
8	Real-time area-based haptic rendering and the augmented tactile display device for a palpation simulator. <i>Advanced Robotics</i> , 2007, 21, 961-981.	1.1	51
9	A Soft and Transparent Visuo-Haptic Interface Pursuing Wearable Devices. <i>IEEE Transactions on Industrial Electronics</i> , 2020, 67, 717-724.	5.2	40
10	A Robust Soft Lens for Tunable Camera Application Using Dielectric Elastomer Actuators. <i>Soft Robotics</i> , 2018, 5, 777-782.	4.6	36
11	Electrically tunable binary phase Fresnel lens based on a dielectric elastomer actuator. <i>Optics Express</i> , 2017, 25, 23801.	1.7	34
12	Application of magnetorheological fluids for a miniature haptic button: Experimental evaluation. <i>Journal of Intelligent Material Systems and Structures</i> , 2012, 23, 1025-1031.	1.4	33
13	A compact planar distributed tactile display and effects of frequency on texture judgment. <i>Advanced Robotics</i> , 2006, 20, 563-580.	1.1	32
14	High-pressure endurable flexible tactile actuator based on microstructured dielectric elastomer. <i>Applied Physics Letters</i> , 2018, 112, .	1.5	32
15	Wrist Assisting Soft Wearable Robot With Stretchable Coolant Vessel Integrated SMA Muscle. <i>IEEE/ASME Transactions on Mechatronics</i> , 2022, 27, 1046-1058.	3.7	32
16	Polymer-Based Flexible Visuo-Haptic Display. <i>IEEE/ASME Transactions on Mechatronics</i> , 2014, 19, 1463-1469.	3.7	31
17	Electroadhesion-Based High-Payload Soft Gripper With Mechanically Strengthened Structure. <i>IEEE Transactions on Industrial Electronics</i> , 2022, 69, 642-651.	5.2	28
18	A thin film active-lens with translational control for dynamically programmable optical zoom. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	27

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19	Texture Display Mouse: Vibrotactile Pattern and Roughness Display. IEEE/ASME Transactions on Mechatronics, 2007, 12, 356-360.	3.7	26
20	Ubi-Pen: Development of a Compact Tactile Display Module and Its Application to a Haptic Stylus. , 2007, , .		26
21	Perspective and potential of smart optical materials. Smart Materials and Structures, 2017, 26, 093001.	1.8	26
22	Flexible transparent displays based on core/shell upconversion nanophosphor-incorporated polymer waveguides. Scientific Reports, 2017, 7, 45659.	1.6	25
23	Development of Quantitative Tactile Display Device to Provide Both Pin- Array-Type Tactile Feedback and Thermal Feedback. , 2007, , .		23
24	Haptic Stylus and Empirical Studies on Braille, Button, and Texture Display. Journal of Biomedicine and Biotechnology, 2008, 2008, 1-11.	3.0	22
25	Precise manipulation of GUI on a touch screen with haptic cues. , 2009, , .		22
26	Transparent and flexible force sensor array based on optical waveguide. Optics Express, 2012, 20, 14486.	1.7	22
27	A Wearable Soft Tactile Actuator With High Output Force for Fingertip Interaction. IEEE Access, 2021, 9, 30206-30215.	2.6	21
28	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
29	A α -Si:H Thin-Film Phototransistor for a Near-Infrared Touch Sensor. IEEE Electron Device Letters, 2015, 36, 41-43.	2.2	17
30	Realistic force reflection in a spine biopsy simulator. , 0, , .		16
31	Effect of frequency difference on sensitivity of beats perception. Experimental Brain Research, 2012, 216, 11-19.	0.7	15
32	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
33	An electro-active polymer based lens module for dynamically varying focal system. Applied Physics Letters, 2016, 109, 141908.	1.5	14
34	Modeling and Analysis of SMA Actuator Embedded in Stretchable Coolant Vascular Pursuing Artificial Muscles. , 2020, , .		14
35	Design of an integrated tactile display system. , 2004, , .		13
36	Wrinkle structures formed by formulating UV-crosslinkable liquid prepolymers. Polymer, 2016, 99, 447-452.	1.8	12

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37	Applications of Smart Materials to Haptics. IEEE Transactions on Haptics, 2018, 11, 2-4.	1.8	12
38	wUbi-Pen: Sensory Feedback Stylus Interacting with Graphical User Interface. Presence: Teleoperators and Virtual Environments, 2012, 21, 142-155.	0.3	10
39	Photocrosslinkable liquid prepolymers for flexible waveguide display applications. Journal of Materials Chemistry C, 2013, 1, 2983.	2.7	10
40	Structure modulated electrostatic deformable mirror for focus and geometry control. Optics Express, 2016, 24, 55.	1.7	10
41	Design, simulation, and testing of a magnetorheological fluid-based haptic actuator for mobile applications. Journal of Intelligent Material Systems and Structures, 2015, 26, 1670-1678.	1.4	9
42	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
43	A variation in wrinkle structures of UV-cured films with chemical structures of prepolymers. Materials Letters, 2017, 199, 105-109.	1.3	9
44	Pen-like Haptic Interface and Its Application on Touch Screen. , 2007, , .		8
45	Effect of Tactile Feedback for Button GUI on Mobile Touch Devices. ETRI Journal, 2014, 36, 979-987.	1.2	8
46	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
47	Interactive Mouse Systems Providing Haptic Feedback During the Exploration in Virtual Environment. Lecture Notes in Computer Science, 2004, , 136-146.	1.0	8
48	SHIFT: Interactive Smartphone Bumper Case. Lecture Notes in Computer Science, 2012, , 91-96.	1.0	7
49	Highly Flexible and Transparent Skin-like Tactile Sensor. Lecture Notes in Electrical Engineering, 2015, , 187-189.	0.3	7
50	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
51	Sigmoidal Auxiliary Tendon-Driven Mechanism Reinforcing Structural Stiffness of Hyper-Redundant Manipulator for Endoscopic Surgery. Soft Robotics, 2023, 10, 234-245.	4.6	7
52	Design and Applications of a Pen-Like Haptic Interface with Texture and Vibrotactile Display. , 2007, , .		6
53	Presentation of Surface Height Profiles Based on Frequency Modulation at Constant Amplitude Using Vibrotactile Elements. Advanced Robotics, 2011, 25, 2065-2081.	1.1	6
54	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

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55	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
56	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
57	Comparison of Force, Tactile and Vibrotactile Feedback for Texture Representation Using a Combined Haptic Feedback Interface. , 2007, , 34-43.		6
58	Tactile feedback for button GUI on touch devices. , 2012, , .		5
59	Thin film display based on polymer waveguides. Optics Express, 2014, 22, 23433.	1.7	5
60	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
61	TAXEL: Initial progress toward self-morphing visio-haptic interface. , 2011, , .		4
62	Sensitive and Stretchable Strain Sensors Based on Silver Nanowires Network. Journal of Nanoscience and Nanotechnology, 2016, 16, 8614-8617.	0.9	4
63	High-Output Force Electrohydraulic Actuator Powered by Induced Interfacial Charges. Advanced Intelligent Systems, 2021, 3, 2100006.	3.3	4
64	Force feedback for a spine biopsy simulator with volume graphic model. , 0, , .		3
65	Design of a new miniature haptic button based on magneto-rheological fluids. , 2012, , .		3
66	Haptic interaction with user manipulation for smartphone. , 2013, , .		3
67	A piecewise controllable tunable lens with large aperture for eyewear application. Smart Materials and Structures, 2019, 28, 124001.	1.8	3
68	Soft Sensors and Actuators for Designing New Human-Robot/Machine Interaction Interfaces. , 2019, , .		3
69	Mechanically Strengthened Electroadhesion based Soft Gripper with Multi-layered Dielectric Elastomer Actuator. , 2020, , .		3
70	Improved electroadhesive force by using fumed alumina/PDMS composites. Smart Materials and Structures, 2021, 30, 035007.	1.8	3
71	A Conceptual Design of a Smart Knob with Torque Feedback for Mobile Applications. Lecture Notes in Electrical Engineering, 2015, , 177-179.	0.3	3
72	Real-Time Area-Based Haptic Rendering for a Palpation Simulator. Lecture Notes in Computer Science, 2006, , 132-141.	1.0	3

#	ARTICLE	IF	CITATIONS
73	Background display for visually impaired people in mobile touch devices. , 2013, , .		2
74	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
75	Design and Simulation of an MR Fluids-Based Haptic Actuator for Mobile Applications. , 2013, , .		1
76	Polymer-Based Sensors: Polymer-Waveguide-Based Flexible Tactile Sensor Array for Dynamic Response (Adv. Mater. 26/2014). Advanced Materials, 2014, 26, 4473-4473.	11.1	1
77	Secured radio communication based on fusion of cryptography algorithms. , 2015, , .		1
78	Self-sensing Soft Tactile Actuator for Fingertip Interface. , 2020, , .		1
79	Interactive remote controller for IPTV. , 2011, , .		0
80	Flexible visuo-haptic display. , 2013, , .		0
81	Haptic interface design for future interactive devices. , 2015, , .		0
82	Semi-plenary talk: Transition: From stiffness to softness. , 2015, , .		0
83	A New Systematic Vibrotactile Rendering for Touchscreen Mobile Devices. Mobile Information Systems, 2016, 2016, 1-7.	0.4	0
84	A Soft Tactile Display Using Dielectric Elastomer Actuator for Fingertip Interaction. Lecture Notes in Electrical Engineering, 2019, , 15-17.	0.3	0
85	Long-term Multiple Time-Constant Model of a Spring Roll Dielectric Elastomer Actuator under Dynamic Loading*. , 2021, , .		0
86	Pressure Sensor using Vertical Coupling of Optical Waveguides. , 2016, , .		0
87	Correction to "A Sigmoid-Colon-Straightening Soft Actuator With Peristaltic Motion for Colonoscopy Insertion Assistance: Easy" [Apr 21 3577-3584]. IEEE Robotics and Automation Letters, 2021, 6, 5736-5736.	3.3	0