Hu Huang

List of Publications by Year
in descending order

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Version: 2024-02-01

68 papers	2,983 citations	218381 26 h-index	197535 49 g-index
71 all docs	71 docs citations	71 times ranked	3694 citing authors

#	Article	IF	Citations
1	Data mining and network analysis reveals C-X-C chemokine receptor type 5 is involved in the pathophysiology of age-related macular degeneration. Journal of Biomolecular Structure and Dynamics, 2022, 40, 10783-10792.	2.0	2
2	Achieving high speed of the stickâ€“slip piezoelectric actuator at low frequency by using a two-stage amplification mechanism (TSAM). Review of Scientific Instruments, 2022, 93, 015010.	0.6	7
3	A high-performance stick-slip piezoelectric actuator achieved by using the double-stator cooperative motion mode (DCMM). Mechanical Systems and Signal Processing, 2022, 172, 108999.	4.4	9
4	Deficiency of C-X-C chemokine receptor type 5 (CXCR5) gene causes dysfunction of retinal pigment epithelium cells. Laboratory Investigation, 2021, 101, 228-244.	1.7	8
5	NF-ÎºB activation in retinal microglia is involved in the inflammatory and neovascularization signaling in laser-induced choroidal neovascularization in mice. Experimental Cell Research, 2021, 403, 112581.	1.2	14
6	A bionic inertial piezoelectric actuator with improved frequency bandwidth. Mechanical Systems and Signal Processing, 2021, 156, 107620.	4.4	29
7	An inertial piezoelectric actuator with small structure but large loading capacity. Review of Scientific Instruments, 2021, 92, 085004.	0.6	2
8	A Novel Rotation-Structure Based Stick-Slip Piezoelectric Actuator with High Consistency in Forward and Reverse Motions. Actuators, 2021, 10, 189.	1.2	6
9	Design and Analysis of a Stepping Piezoelectric Actuator Free of Backward Motion. Actuators, 2021, 10, 200.	1.2	7
10	Transcriptome-wide analysis reveals core sets of transcriptional regulators of sensome and inflammation genes in retinal microglia. Genomics, 2021, 113, 3058-3071.	1.3	7
11	A Dynamic Model of Stick-Slip Piezoelectric Actuators Considering the Deformation of Overall System. IEEE Transactions on Industrial Electronics, 2021, 68, 11266-11275.	5.2	33
12	Pericyte-Endothelial Interactions in the Retinal Microvasculature. International Journal of Molecular Sciences, 2020, 21, 7413.	1.8	94
13	Synergistic interactions of PlGF and VEGF contribute to blood-retinal barrier breakdown through canonical NFÎºB activation. Experimental Cell Research, 2020, 397, 112347.	1.2	8
14	RNA-Seq reveals placental growth factor regulates the human retinal endothelial cell barrier integrity by transforming growth factor (TGF-Î²) signaling. Molecular and Cellular Biochemistry, 2020, 475, 93-106.	1.4	5
15	A low frequency operation high speed stick-slip piezoelectric actuator achieved by using a L-shape flexure hinge. Smart Materials and Structures, 2020, 29, 065007.	1.8	29
16	CXCR5/NRF2 double knockout mice develop retinal degeneration phenotype at early adult age. Experimental Eye Research, 2020, 196, 108061.	1.2	4
17	Transcriptome-Wide Analysis of CXCR5 Deficient Retinal Pigment Epithelial (RPE) Cells Reveals Molecular Signatures of RPE Homeostasis. Biomedicines, 2020, 8, 147.	1.4	11
18	RNA-seq data from C-X-C chemokine receptor type 5 (CXCR5) gene knockout aged mice with retinal degeneration phenotype. Data in Brief, 2020, 31, 105915.	0.5	3

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19	RNA-Seq reveals differential expression profiles and functional annotation of genes involved in retinal degeneration in Pde6c mutant Danio rerio. BMC Genomics, 2020, 21, 132.	1.2	7
20	Discovery of Small-Molecule Activators for Glucose-6-Phosphate Dehydrogenase (G6PD) Using Machine Learning Approaches. International Journal of Molecular Sciences, 2020, 21, 1523.	1.8	12
21	Placental growth factor regulates the pentose phosphate pathway and antioxidant defense systems in human retinal endothelial cells. Journal of Proteomics, 2020, 217, 103682.	1.2	11
22	A stick-slip piezoelectric actuator with measurable contact force. Mechanical Systems and Signal Processing, 2020, 144, 106881.	4.4	51
23	Discovery of novel L-type voltage-gated calcium channel blockers and application for the prevention of inflammation and angiogenesis. Journal of Neuroinflammation, 2020, 17, 132.	3.1	25
24	Suppressing the backward motion of a stickâ€“slip piezoelectric actuator by means of the sequential control method (SCM). Mechanical Systems and Signal Processing, 2020, 143, 106855.	4.4	53
25	A compact 2-DOF piezo-driven positioning stage designed by using the parasitic motion of flexure hinge mechanism. Smart Materials and Structures, 2020, 29, 015022.	1.8	19
26	A novel piezoelectric linear actuator designed by imitating skateboarding movement. Smart Materials and Structures, 2020, 29, 115038.	1.8	15
27	A novel stick-slip piezoelectric rotary actuator designed by employing a centrosymmetric flexure hinge mechanism. Smart Materials and Structures, 2020, 29, 125006.	1.8	11
28	The Anti-Inflammatory Effects of CXCR5 in the Mice Retina following Ischemia-Reperfusion Injury. BioMed Research International, 2019, 2019, 1-10.	0.9	10
29	A novel piezoelectric rotary actuator with a constant contact status between the driving mechanism and rotor. Smart Materials and Structures, 2019, 28, 085045.	1.8	17
30	Identification of novel inhibitors for TNFÎ±, TNFR1 and TNFÎ±-TNFR1 complex using pharmacophore-based approaches. Journal of Translational Medicine, 2019, 17, 215.	1.8	64
31	Autoimmune-Mediated Retinopathy in CXCR5-Deficient Mice as the Result of Age-Related Macular Degeneration Associated Proteins Accumulation. Frontiers in Immunology, 2019, 10, 1903.	2.2	17
32	A novel single butterfly stator piezo driver. Sensors and Actuators A: Physical, 2019, 298, 111517.	2.0	5
33	Placental growth factor negatively regulates retinal endothelial cell barrier function through suppression of glucoseâ€6â€phosphate dehydrogenase and antioxidant defense systems. FASEB Journal, 2019, 33, 13695-13709.	0.2	20
34	A new motion mode of a parasitic motion principle (PMP) piezoelectric actuator by preloading the flexible hinge mechanism. Sensors and Actuators A: Physical, 2019, 295, 396-404.	2.0	11
35	Evolution of one-stepping characteristics of a stick-slip piezoelectric actuator under various initial gaps. Sensors and Actuators A: Physical, 2019, 295, 348-356.	2.0	36
36	Design and stepping characteristics of novel stickâ€“slip piezo-driven linear actuator. Smart Materials and Structures, 2019, 28, 075026.	1.8	36

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37	Transcriptome-wide analysis of differentially expressed chemokine receptors, SNPs, and SSRs in the age-related macular degeneration. Human Genomics, 2019, 13, 15.	1.4	26
38	Stepping piezoelectric actuators with large working stroke for nano-positioning systems: A review. Sensors and Actuators A: Physical, 2019, 292, 39-51.	2.0	173
39	Design and performance evaluation of a novel stickâ€“slip piezoelectric linear actuator with a centrosymmetric-type flexure hinge mechanism. Microsystem Technologies, 2019, 25, 3891-3898.	1.2	7
40	Active suppression of the backward motion in a parasitic motion principle (PMP) piezoelectric actuator. Smart Materials and Structures, 2019, 28, 125006.	1.8	21
41	A Piezoelectric-Driven Linear Actuator by Means of Coupling Motion. IEEE Transactions on Industrial Electronics, 2018, 65, 2458-2466.	5.2	121
42	Proteomics reveals ablation of PlGF increases antioxidant and neuroprotective proteins in the diabetic mouse retina. Scientific Reports, 2018, 8, 16728.	1.6	24
43	Associations Between Nutrition, Gut Microbiome, and Health in A Novel Nonhuman Primate Model. Scientific Reports, 2018, 8, 11159.	1.6	60
44	Gene Expression Profile of Extracellular Matrix and Adhesion Molecules in the Human Normal Corneal Stroma. Current Eye Research, 2017, 42, 520-527.	0.7	7
45	Age-related macular degeneration phenotypes are associated with increased tumor necrosis-alpha and subretinal immune cells in aged Cxcr5 knockout mice. PLoS ONE, 2017, 12, e0173716.	1.1	30
46	Captivity humanizes the primate microbiome. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 10376-10381.	3.3	369
47	On the correlation between the structure and one stepping characteristic of a piezo-driven rotary actuator. Microsystem Technologies, 2016, 22, 2821-2827.	1.2	16
48	Blockade of Vascular Endothelial Growth Factor Receptor 1 Prevents Inflammation and Vascular Leakage in Diabetic Retinopathy. Journal of Ophthalmology, 2015, 2015, 1-11.	0.6	33
49	A comparative study of surface EMG classification by fuzzy relevance vector machine and fuzzy support vector machine. Physiological Measurement, 2015, 36, 191-206.	1.2	27
50	Deletion of Placental Growth Factor Prevents Diabetic Retinopathy and Is Associated With Akt Activation and HIF1Î±-VEGF Pathway Inhibition. Diabetes, 2015, 64, 200-212.	0.3	119
51	Complex host genetics influence the microbiome in inflammatory bowel disease. Genome Medicine, 2014, 6, 107.	3.6	322
52	Design and experiment performances of an inchworm type rotary actuator. Review of Scientific Instruments, 2014, 85, 085004.	0.6	28
53	The role of Oâ€GlcNAc signaling in the pathogenesis of diabetic retinopathy. Proteomics - Clinical Applications, 2014, 8, 218-231.	0.8	53
54	The evolution of machining-induced surface of single-crystal FCC copper via nanoindentation. Nanoscale Research Letters, 2013, 8, 211.	3.1	16

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55	Note: A novel rotary actuator driven by only one piezoelectric actuator. Review of Scientific Instruments, 2013, 84, 096105.	0.6	25
56	A piezoelectric-driven rotary actuator by means of inchworm motion. Sensors and Actuators A: Physical, 2013, 194, 269-276.	2.0	122
57	Influence of double-tip scratch and single-tip scratch on nano-scratching process via molecular dynamics simulation. Applied Surface Science, 2013, 280, 751-756.	3.1	53
58	Design and experimental research of a novel inchworm type piezo-driven rotary actuator with the changeable clamping radius. Review of Scientific Instruments, 2013, 84, 015006.	0.6	29
59	VEGF Receptor Blockade Markedly Reduces Retinal Microglia/Macrophage Infiltration into Laser-Induced CNV. PLoS ONE, 2013, 8, e71808.	1.1	77
60	A novel driving principle by means of the parasitic motion of the microgripper and its preliminary application in the design of the linear actuator. Review of Scientific Instruments, 2012, 83, 055002.	0.6	60
61	Research on the effects of machining-induced subsurface damages on mono-crystalline silicon via molecular dynamics simulation. Applied Surface Science, 2012, 259, 66-71.	3.1	59
62	Ant colony optimization-based feature selection method for surface electromyography signals classification. Computers in Biology and Medicine, 2012, 42, 30-38.	3.9	67
63	Reduced Retinal Neovascularization, Vascular Permeability, and Apoptosis in Ischemic Retinopathy in the Absence of Prolyl Hydroxylase-1 Due to the Prevention of Hyperoxia-Induced Vascular Obliteration. , 2011, 52, 7565.		39
64	TNFÎ± Is Required for Late BRB Breakdown in Diabetic Retinopathy, and Its Inhibition Prevents Leukostasis and Protects Vessels and Neurons from Apoptosis. , 2011, 52, 1336.		189
65	Blockade of VEGFR1 and 2 Suppresses Pathological Angiogenesis and Vascular Leakage in the Eye. PLoS ONE, 2011, 6, e21411.	1.1	70
66	Parstatin Suppresses Ocular Neovascularization and Inflammation. , 2010, 51, 5825.		16
67	Developmental regulation of muscleblindâ€like (MBNL) gene expression in the chicken embryo retina. Developmental Dynamics, 2008, 237, 286-296.	0.8	14
68	Parasitic Motion Principle (PMP) Piezoelectric Actuators: Definition and Recent Developments. , 0, , .		1