

# Hu Huang

## List of Publications by Year in descending order

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Version: 2024-02-01

68  
papers

2,983  
citations

218592

26  
h-index

189801

50  
g-index

71  
all docs

71  
docs citations

71  
times ranked

3694  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Complex host genetics influence the microbiome in inflammatory bowel disease. Genome Medicine, 2014, 6, 107.	3.6	322
3	TNF $\alpha$ 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
4	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
5	A piezoelectric-driven rotary actuator by means of inchworm motion. Sensors and Actuators A: Physical, 2013, 194, 269-276.	2.0	122
6	A Piezoelectric-Driven Linear Actuator by Means of Coupling Motion. IEEE Transactions on Industrial Electronics, 2018, 65, 2458-2466.	5.2	121
7	Deletion of Placental Growth Factor Prevents Diabetic Retinopathy and Is Associated With Akt Activation and HIF1 $\alpha$ -VEGF Pathway Inhibition. Diabetes, 2015, 64, 200-212.	0.3	119
8	Pericyte-Endothelial Interactions in the Retinal Microvasculature. International Journal of Molecular Sciences, 2020, 21, 7413.	1.8	94
9	VEGF Receptor Blockade Markedly Reduces Retinal Microglia/Macrophage Infiltration into Laser-Induced CNV. PLoS ONE, 2013, 8, e71808.	1.1	77
10	Blockade of VEGFR1 and 2 Suppresses Pathological Angiogenesis and Vascular Leakage in the Eye. PLoS ONE, 2011, 6, e21411.	1.1	70
11	Ant colony optimization-based feature selection method for surface electromyography signals classification. Computers in Biology and Medicine, 2012, 42, 30-38.	3.9	67
12	Identification of novel inhibitors for TNF $\alpha$ , TNFR1 and TNF $\alpha$ -TNFR1 complex using pharmacophore-based approaches. Journal of Translational Medicine, 2019, 17, 215.	1.8	64
13	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
14	Associations Between Nutrition, Gut Microbiome, and Health in A Novel Nonhuman Primate Model. Scientific Reports, 2018, 8, 11159.	1.6	60
15	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
16	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
17	The role of $\alpha$ -GlcNAc signaling in the pathogenesis of diabetic retinopathy. Proteomics - Clinical Applications, 2014, 8, 218-231.	0.8	53
18	Suppressing the backward motion of a stick-slip piezoelectric actuator by means of the sequential control method (SCM). Mechanical Systems and Signal Processing, 2020, 143, 106855.	4.4	53

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19	A stick-slip piezoelectric actuator with measurable contact force. <i>Mechanical Systems and Signal Processing</i> , 2020, 144, 106881.	4.4	51
20	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
21	Evolution of one-stepping characteristics of a stick-slip piezoelectric actuator under various initial gaps. <i>Sensors and Actuators A: Physical</i> , 2019, 295, 348-356.	2.0	36
22	Design and stepping characteristics of novel stick-slip piezo-driven linear actuator. <i>Smart Materials and Structures</i> , 2019, 28, 075026.	1.8	36
23	Blockade of Vascular Endothelial Growth Factor Receptor 1 Prevents Inflammation and Vascular Leakage in Diabetic Retinopathy. <i>Journal of Ophthalmology</i> , 2015, 2015, 1-11.	0.6	33
24	A Dynamic Model of Stick-Slip Piezoelectric Actuators Considering the Deformation of Overall System. <i>IEEE Transactions on Industrial Electronics</i> , 2021, 68, 11266-11275.	5.2	33
25	Age-related macular degeneration phenotypes are associated with increased tumor necrosis-alpha and subretinal immune cells in aged Cxcr5 knockout mice. <i>PLoS ONE</i> , 2017, 12, e0173716.	1.1	30
26	Design and experimental research of a novel inchworm type piezo-driven rotary actuator with the changeable clamping radius. <i>Review of Scientific Instruments</i> , 2013, 84, 015006.	0.6	29
27	A low frequency operation high speed stick-slip piezoelectric actuator achieved by using a L-shape flexure hinge. <i>Smart Materials and Structures</i> , 2020, 29, 065007.	1.8	29
28	A bionic inertial piezoelectric actuator with improved frequency bandwidth. <i>Mechanical Systems and Signal Processing</i> , 2021, 156, 107620.	4.4	29
29	Design and experiment performances of an inchworm type rotary actuator. <i>Review of Scientific Instruments</i> , 2014, 85, 085004.	0.6	28
30	A comparative study of surface EMG classification by fuzzy relevance vector machine and fuzzy support vector machine. <i>Physiological Measurement</i> , 2015, 36, 191-206.	1.2	27
31	Transcriptome-wide analysis of differentially expressed chemokine receptors, SNPs, and SSRs in the age-related macular degeneration. <i>Human Genomics</i> , 2019, 13, 15.	1.4	26
32	Note: A novel rotary actuator driven by only one piezoelectric actuator. <i>Review of Scientific Instruments</i> , 2013, 84, 096105.	0.6	25
33	Discovery of novel L-type voltage-gated calcium channel blockers and application for the prevention of inflammation and angiogenesis. <i>Journal of Neuroinflammation</i> , 2020, 17, 132.	3.1	25
34	Proteomics reveals ablation of PlGF increases antioxidant and neuroprotective proteins in the diabetic mouse retina. <i>Scientific Reports</i> , 2018, 8, 16728.	1.6	24
35	Active suppression of the backward motion in a parasitic motion principle (PMP) piezoelectric actuator. <i>Smart Materials and Structures</i> , 2019, 28, 125006.	1.8	21
36	Placental growth factor negatively regulates retinal endothelial cell barrier function through suppression of glucose-6-phosphate dehydrogenase and antioxidant defense systems. <i>FASEB Journal</i> , 2019, 33, 13695-13709.	0.2	20

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37	A compact 2-DOF piezo-driven positioning stage designed by using the parasitic motion of flexure hinge mechanism. <i>Smart Materials and Structures</i> , 2020, 29, 015022.	1.8	19
38	A novel piezoelectric rotary actuator with a constant contact status between the driving mechanism and rotor. <i>Smart Materials and Structures</i> , 2019, 28, 085045.	1.8	17
39	Autoimmune-Mediated Retinopathy in CXCR5-Deficient Mice as the Result of Age-Related Macular Degeneration Associated Proteins Accumulation. <i>Frontiers in Immunology</i> , 2019, 10, 1903.	2.2	17
40	Parstatin Suppresses Ocular Neovascularization and Inflammation. , 2010, 51, 5825.		16
41	The evolution of machining-induced surface of single-crystal FCC copper via nanoindentation. <i>Nanoscale Research Letters</i> , 2013, 8, 211.	3.1	16
42	On the correlation between the structure and one stepping characteristic of a piezo-driven rotary actuator. <i>Microsystem Technologies</i> , 2016, 22, 2821-2827.	1.2	16
43	A novel piezoelectric linear actuator designed by imitating skateboarding movement. <i>Smart Materials and Structures</i> , 2020, 29, 115038.	1.8	15
44	Developmental regulation of muscleblind-like (MBNL) gene expression in the chicken embryo retina. <i>Developmental Dynamics</i> , 2008, 237, 286-296.	0.8	14
45	NF- $\kappa$ B activation in retinal microglia is involved in the inflammatory and neovascularization signaling in laser-induced choroidal neovascularization in mice. <i>Experimental Cell Research</i> , 2021, 403, 112581.	1.2	14
46	Discovery of Small-Molecule Activators for Glucose-6-Phosphate Dehydrogenase (G6PD) Using Machine Learning Approaches. <i>International Journal of Molecular Sciences</i> , 2020, 21, 1523.	1.8	12
47	A new motion mode of a parasitic motion principle (PMP) piezoelectric actuator by preloading the flexible hinge mechanism. <i>Sensors and Actuators A: Physical</i> , 2019, 295, 396-404.	2.0	11
48	Transcriptome-Wide Analysis of CXCR5 Deficient Retinal Pigment Epithelial (RPE) Cells Reveals Molecular Signatures of RPE Homeostasis. <i>Biomedicines</i> , 2020, 8, 147.	1.4	11
49	Placental growth factor regulates the pentose phosphate pathway and antioxidant defense systems in human retinal endothelial cells. <i>Journal of Proteomics</i> , 2020, 217, 103682.	1.2	11
50	A novel stick-slip piezoelectric rotary actuator designed by employing a centrosymmetric flexure hinge mechanism. <i>Smart Materials and Structures</i> , 2020, 29, 125006.	1.8	11
51	The Anti-Inflammatory Effects of CXCR5 in the Mice Retina following Ischemia-Reperfusion Injury. <i>BioMed Research International</i> , 2019, 2019, 1-10.	0.9	10
52	A high-performance stick-slip piezoelectric actuator achieved by using the double-stator cooperative motion mode (DCMM). <i>Mechanical Systems and Signal Processing</i> , 2022, 172, 108999.	4.4	9
53	Synergistic interactions of PlGF and VEGF contribute to blood-retinal barrier breakdown through canonical NF- $\kappa$ B activation. <i>Experimental Cell Research</i> , 2020, 397, 112347.	1.2	8
54	Deficiency of C-X-C chemokine receptor type 5 (CXCR5) gene causes dysfunction of retinal pigment epithelium cells. <i>Laboratory Investigation</i> , 2021, 101, 228-244.	1.7	8

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55	Gene Expression Profile of Extracellular Matrix and Adhesion Molecules in the Human Normal Corneal Stroma. <i>Current Eye Research</i> , 2017, 42, 520-527.	0.7	7
56	Design and performance evaluation of a novel stick-slip piezoelectric linear actuator with a centrosymmetric-type flexure hinge mechanism. <i>Microsystem Technologies</i> , 2019, 25, 3891-3898.	1.2	7
57	RNA-Seq reveals differential expression profiles and functional annotation of genes involved in retinal degeneration in Pde6c mutant <i>Danio rerio</i> . <i>BMC Genomics</i> , 2020, 21, 132.	1.2	7
58	Design and Analysis of a Stepping Piezoelectric Actuator Free of Backward Motion. <i>Actuators</i> , 2021, 10, 200.	1.2	7
59	Transcriptome-wide analysis reveals core sets of transcriptional regulators of senescence and inflammation genes in retinal microglia. <i>Genomics</i> , 2021, 113, 3058-3071.	1.3	7
60	Achieving high speed of the stick-slip piezoelectric actuator at low frequency by using a two-stage amplification mechanism (TSAM). <i>Review of Scientific Instruments</i> , 2022, 93, 015010.	0.6	7
61	A Novel Rotation-Structure Based Stick-Slip Piezoelectric Actuator with High Consistency in Forward and Reverse Motions. <i>Actuators</i> , 2021, 10, 189.	1.2	6
62	A novel single butterfly stator piezo driver. <i>Sensors and Actuators A: Physical</i> , 2019, 298, 111517.	2.0	5
63	RNA-Seq reveals placental growth factor regulates the human retinal endothelial cell barrier integrity by transforming growth factor (TGF- $\beta$ ) signaling. <i>Molecular and Cellular Biochemistry</i> , 2020, 475, 93-106.	1.4	5
64	CXCR5/NRF2 double knockout mice develop retinal degeneration phenotype at early adult age. <i>Experimental Eye Research</i> , 2020, 196, 108061.	1.2	4
65	RNA-seq data from C-X-C chemokine receptor type 5 (CXCR5) gene knockout aged mice with retinal degeneration phenotype. <i>Data in Brief</i> , 2020, 31, 105915.	0.5	3
66	Data mining and network analysis reveals C-X-C chemokine receptor type 5 is involved in the pathophysiology of age-related macular degeneration. <i>Journal of Biomolecular Structure and Dynamics</i> , 2022, 40, 10783-10792.	2.0	2
67	An inertial piezoelectric actuator with small structure but large loading capacity. <i>Review of Scientific Instruments</i> , 2021, 92, 085004.	0.6	2
68	Parasitic Motion Principle (PMP) Piezoelectric Actuators: Definition and Recent Developments. , 0, , .		1