John S Ho

List of Publications by Year in descending order

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80 papers	4,745 citations	109321 35 h-index	128289 60 g-index
83 all docs	83 docs citations	83 times ranked	5546 citing authors

#	Article	IF	Citations
1	Wirelessly powered, fully internal optogenetics for brain, spinal and peripheral circuits in mice. Nature Methods, 2015, 12, 969-974.	19.0	473
2	Wireless power transfer to deep-tissue microimplants. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 7974-7979.	7.1	399
3	Wireless body sensor networks based on metamaterial textiles. Nature Electronics, 2019, 2, 243-251.	26.0	276
4	Biomimetic MXene Textures with Enhanced Lightâ€toâ€Heat Conversion for Solar Steam Generation and Wearable Thermal Management. Advanced Energy Materials, 2019, 9, 1901687.	19.5	210
5	A neuro-inspired artificial peripheral nervous system for scalable electronic skins. Science Robotics, 2019, 4, .	17.6	203
6	A transparent, self-healing and high-Îº dielectric for low-field-emission stretchable optoelectronics. Nature Materials, 2020, 19, 182-188.	27.5	183
7	Selfâ€Sustainable Wearable Textile Nanoâ€Energy Nanoâ€System (NENS) for Nextâ€Generation Healthcare Applications. Advanced Science, 2019, 6, 1901437.	11.2	179
8	Midfield Wireless Powering for Implantable Systems. Proceedings of the IEEE, 2013, 101, 1369-1378.	21.3	178
9	Wireless battery-free body sensor networks using near-field-enabled clothing. Nature Communications, 2020, 11, 444.	12.8	165
10	Reversible Crumpling of 2D Titanium Carbide (MXene) Nanocoatings for Stretchable Electromagnetic Shielding and Wearable Wireless Communication. Advanced Functional Materials, 2020, 30, 1907451.	14.9	155
11	In vivo wireless photonic photodynamic therapy. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 1469-1474.	7.1	152
12	Conformal phased surfaces for wireless powering of bioelectronic microdevices. Nature Biomedical Engineering, 2017, 1, .	22.5	137
13	Sensitive readout of implantable microsensors using a wireless system locked to an exceptional point. Nature Electronics, 2019, 2, 335-342.	26.0	125
14	Study of thin film blue energy harvester based on triboelectric nanogenerator and seashore IoT applications. Nano Energy, 2019, 66, 104167.	16.0	117
15	Wireless power transfer to a cardiac implant. Applied Physics Letters, 2012, 101, 073701.	3.3	116
16	Somatosensory, Lightâ€Driven, Thinâ€Film Robots Capable of Integrated Perception and Motility. Advanced Materials, 2020, 32, e2000351.	21.0	106
17	A flexible multiplexed immunosensor for point-of-care in situ wound monitoring. Science Advances, 2021, 7, .	10.3	106
18	Wireless Power Transfer to Miniature Implants: Transmitter Optimization. IEEE Transactions on Antennas and Propagation, 2012, 60, 4838-4845.	5.1	105

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19	Wireless Ti₃C₂T_x MXene Strain Sensor with Ultrahigh Sensitivity and Designated Working Windows for Soft Exoskeletons. ACS Nano, 2020, 14, 11860-11875.	14.6	99
20	Midfield Wireless Powering of Subwavelength Autonomous Devices. Physical Review Letters, 2013, 110, 203905.	7.8	92
21	Digitally-embroidered liquid metal electronic textiles for wearable wireless systems. Nature Communications, 2022, 13, 2190.	12.8	87
22	Toward Bioelectronic Medicineâ€"Neuromodulation of Small Peripheral Nerves Using Flexible Neural Clip. Advanced Science, 2017, 4, 1700149.	11.2	76
23	Metasurfaces for bioelectronics and healthcare. Nature Electronics, 2021, 4, 382-391.	26.0	70
24	A wireless and battery-free wound infection sensor based on DNA hydrogel. Science Advances, 2021, 7, eabj1617.	10.3	68
25	Multi-interface engineering of solar evaporation devices via scalable, synchronous thermal shrinkage and foaming. Nano Energy, 2020, 74, 104875.	16.0	57
26	Multifunctional metallic backbones for origami robotics with strain sensing and wireless communication capabilities. Science Robotics, 2019, 4, .	17.6	53
27	Wireless Technologies for Energy Harvesting and Transmission for Ambient Self-Powered Systems. ACS Nano, 2021, 15, 9328-9354.	14.6	53
28	High-performance wireless powering for peripheral nerve neuromodulation systems. PLoS ONE, 2017, 12, e0186698.	2.5	47
29	Wirelessly operated bioelectronic sutures for the monitoring of deep surgical wounds. Nature Biomedical Engineering, 2021, 5, 1217-1227.	22.5	47
30	Hamiltonian Hopping for Efficient Chiral Mode Switching in Encircling Exceptional Points. Physical Review Letters, 2020, 125, 187403.	7.8	44
31	A General Strategy for Stretchable Microwave Antenna Systems using Serpentine Mesh Layouts. Advanced Functional Materials, 2017, 27, 1703059.	14.9	43
32	Lightâ€toâ€Heat Conversion: Biomimetic MXene Textures with Enhanced Lightâ€toâ€Heat Conversion for Solar Steam Generation and Wearable Thermal Management (Adv. Energy Mater. 34/2019). Advanced Energy Materials, 2019, 9, 1970141.	19.5	43
33	Wirelessly powering miniature implants for optogenetic stimulation. Applied Physics Letters, 2013, 103, .	3.3	41
34	Self-Tracking Energy Transfer for Neural Stimulation in Untethered Mice. Physical Review Applied, 2015, 4, .	3.8	41
35	Thermal Camouflaging MXene Robotic Skin with Bioâ€Inspired Stimulus Sensation and Wireless Communication. Advanced Functional Materials, 2022, 32, .	14.9	39
36	Planar immersion lens with metasurfaces. Physical Review B, 2015, 91, .	3.2	34

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37	A Wireless Multi-Channel Peripheral Nerve Signal Acquisition System-on-Chip. IEEE Journal of Solid-State Circuits, 2019, 54, 2266-2280.	5.4	30
38	Subcellular electrical stimulation of neurons enhances the myelination of axons by oligodendrocytes. PLoS ONE, 2017, 12, e0179642.	2.5	30
39	Electronic textiles for energy, sensing, and communication. IScience, 2022, 25, 104174.	4.1	30
40	Conformal Propagation and Near-Omnidirectional Radiation With Surface Plasmonic Clothing. IEEE Transactions on Antennas and Propagation, 2020, 68, 7309-7319.	5.1	27
41	Antireflection and Wavefront Manipulation with Cascaded Metasurfaces. Physical Review Applied, 2020, 14, .	3.8	21
42	Reconfigurable Dual-Band Capsule-Conformal Antenna Array for In-Body Bioelectronics. IEEE Transactions on Antennas and Propagation, 2022, 70, 3749-3761.	5.1	17
43	ENERGY TRANSFER FOR IMPLANTABLE ELECTRONICS IN THE ELECTROMAGNETIC MIDFIELD (Invited Paper). Progress in Electromagnetics Research, 2014, 148, 151-158.	4.4	16
44	Methods for powering bioelectronic microdevices. Bioelectronics in Medicine, 2018, 1, 201-217.	2.0	15
45	Inter-channel demosaicking traces for digital image forensics. , 2010, , .		13
46	Cation-Induced Assembly of Conductive MXene Fibers for Wearable Heater, Wireless Communication, and Stem Cell Differentiation. ACS Biomaterials Science and Engineering, 2023, 9, 2129-2139.	5.2	12
47	Wirelessly Activated Nanotherapeutics for In Vivo Programmable Photodynamicâ€Chemotherapy of Orthotopic Bladder Cancer. Advanced Science, 2022, 9, e2200731.	11.2	12
48	A 3-Mbps, 802.11g-Based EMG Recording System With Fully Implantable 5-Electrode EMGxbrk Acquisition Device. IEEE Transactions on Biomedical Circuits and Systems, 2020, 14, 889-902.	4.0	10
49	Localized Surface Plasmons on Textiles for Non-Contact Vital Sign Sensing. IEEE Transactions on Antennas and Propagation, 2022, 70, 8507-8517.	5.1	10
50	Enhancing Wireless Transmission from the Body with Wearable Diffractive Patterns. Physical Review Applied, 2019, 12, .	3.8	7
51	Wireless Magnetic Actuation with a Bistable Parity-Time-Symmetric Circuit. Physical Review Applied, 2021, 15, .	3.8	7
52	Energy-efficient and Secure Wireless Body Sensor Networks with Metamaterial Textiles. , 2019, , .		6
53	Enhanced Electromagnetic Energy Harvesting with Subwavelength Chiral Structures. Physical Review Applied, 2017, 8, .	3.8	5
54	A wireless optoelectronic skin patch for light delivery and thermal monitoring. IScience, 2021, 24, 103284.	4.1	5

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55	Wireless Power Transfer for Glioblastoma Photodynamic Therapy. , 2019, , .		4
56	Near-Reflectionless Wireless Transmission Into the Body With Cascaded Metasurfaces. IEEE Transactions on Antennas and Propagation, 2022, 70, 8379-8388.	5.1	4
57	Optical probe for input-impedance measurement of in vivo power-receiving microstructure. , 2014, , .		3
58	Fully internal, wirelessly powered systems for optogenetics. , 2016, , .		3
59	Batteryless Pelvic Nerve Direct Modulation for Bladder Voding Using an Active Neural Clip. , 2018, , .		3
60	Control of wireless power transfer to a bioelectronic device by harmonic feedback. AIP Advances, 2018, 8, .	1.3	3
61	Robust and High-Efficiency Wireless Body Area Networks with Spoof Surface Plasmons on Clothing. , 2019, , .		3
62	A DIY approach to wearable sensor networks. Nature Electronics, 2021, 4, 771-772.	26.0	3
63	Heterogeneous multi-compartmental DNA hydrogel particles prepared via microfluidic assembly for lymphocyte-inspired precision medicine. Nanoscale, 2021, 13, 20531-20540.	5.6	3
64	Near-field-enabled Clothing for Wearable Wireless Power Transfer. , 2020, , .		3
65	NON-COIL, OPTIMAL SOURCES FOR WIRELESS POWERING OF SUB-MILLIMETER IMPLANTABLE DEVICES. Progress in Electromagnetics Research, 2017, 158, 99-108.	4.4	2
66	Photodynamic Therapy: A Flexiâ€PEGDA Upconversion Implant for Wireless Brain Photodynamic Therapy (Adv. Mater. 29/2020). Advanced Materials, 2020, 32, 2070219.	21.0	2
67	Microwave Metamaterials for Biomedical Sensing. , 2021, , .		2
68	Wireless powering of microchip implants by a cross-slot antenna. , 2012, , .		1
69	Microwave to near-infrared conversion with a millimeter-scale wireless laser for activating molecular transducers. , 2016, 2016, 352-354.		1
70	Conformai microwave lens for focusing across inhomogenous tissue. , 2016, , .		1
71	Wireless respiration monitoring using a flexible sensor and bistable circuit. , 2021, , .		1
72	Digitally-embroidered Liquid Metal Textiles for Near-field Wireless Body Sensor Networks. , 2021, , .		1

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73	Wearable Radio-frequency Plasmonic Resonance Sensor for Non-contact Vital Sign Monitoring. , 2021, , .		1
74	Non-Contact Vital Sign Monitoring With a Metamaterial Surface. , 2022, , .		1
75	Wireless interfaces for brain neurotechnologies. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2022, 380, .	3.4	1
76	Enhancing Wireless Transmission from Implanted Devices with an Electromagnetic Grating. , 2018, , .		0
77	Wireless Light Delivery for Photodynamic Therapy. , 2018, , .		0
78	10.1063/1.4825272.1. , 2013, , .		0
79	Wearable Wireless Propagation and Radiation Control With Metamaterial Textiles. , 2020, , .		0
80	Wireless Propagation and Focusing into the Human Body with Wearable Metamaterials. , 2021, , .		0