

Abraham Vázquez-Guardado

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

3,121
citations

270111

25
h-index

274796

44
g-index

53
all docs

53
docs citations

53
times ranked

4735
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrochemical Bioelectronics in Drug Delivery: Effect of the Initial Gas Volume. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2022, 89, .	1.1	1
2	Challenges and opportunities in flexible, stretchable and morphable bio-interfaced technologies. <i>National Science Review</i> , 2022, 9, .	4.6	4
3	Preparation and use of wireless reprogrammable multilateral optogenetic devices for behavioral neuroscience. <i>Nature Protocols</i> , 2022, 17, 1073-1096.	5.5	14
4	A wireless haptic interface for programmable patterns of touch across large areas of the skin. <i>Nature Electronics</i> , 2022, 5, 374-385.	13.1	83
5	A transient, closed-loop network of wireless, body-integrated devices for autonomous electrotherapy. <i>Science</i> , 2022, 376, 1006-1012.	6.0	90
6	Wireless implantable optical probe for continuous monitoring of oxygen saturation in flaps and organ grafts. <i>Nature Communications</i> , 2022, 13, .	5.8	22
7	Wireless, implantable catheter-type oximeter designed for cardiac oxygen saturation. <i>Science Advances</i> , 2021, 7, .	4.7	45
8	Three-dimensional, multifunctional neural interfaces for cortical spheroids and engineered assembloids. <i>Science Advances</i> , 2021, 7, .	4.7	128
9	Biocompatible Light Guide-Assisted Wearable Devices for Enhanced UV Light Delivery in Deep Skin. <i>Advanced Functional Materials</i> , 2021, 31, 2100576.	7.8	26
10	Wireless multilateral devices for optogenetic studies of individual and social behaviors. <i>Nature Neuroscience</i> , 2021, 24, 1035-1045.	7.1	98
11	Wireless, battery-free, subdermally implantable platforms for transcranial and long-range optogenetics in freely moving animals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	31
12	Battery-free, wireless soft sensors for continuous multi-site measurements of pressure and temperature from patients at risk for pressure injuries. <i>Nature Communications</i> , 2021, 12, 5008.	5.8	83
13	DNA-Modified Plasmonic Sensor for the Direct Detection of Virus Biomarkers from the Blood. <i>Nano Letters</i> , 2021, 21, 7505-7511.	4.5	24
14	Recent advances in neurotechnologies with broad potential for neuroscience research. <i>Nature Neuroscience</i> , 2020, 23, 1522-1536.	7.1	111
15	Stretchable, dynamic covalent polymers for soft, long-lived bioresorbable electronic stimulators designed to facilitate neuromuscular regeneration. <i>Nature Communications</i> , 2020, 11, 5990.	5.8	144
16	Wireless, battery-free subdermally implantable photometry systems for chronic recording of neural dynamics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 2835-2845.	3.3	94
17	Battery-free, lightweight, injectable microsystem for in vivo wireless pharmacology and optogenetics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 21427-21437.	3.3	110
18	Buckling and twisting of advanced materials into morphable 3D mesostructures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 13239-13248.	3.3	81

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19	Wireless, battery-free optoelectronic systems as subdermal implants for local tissue oximetry. <i>Science Advances</i> , 2019, 5, eaaw0873.	4.7	116
20	Skin-integrated wireless haptic interfaces for virtual and augmented reality. <i>Nature</i> , 2019, 575, 473-479.	13.7	610
21	Microsensor for limonin detection: An indicator of citrus greening disease. <i>Sensors and Actuators B: Chemical</i> , 2019, 283, 724-730.	4.0	16
22	Enzyme-Free Plasmonic Biosensor for Direct Detection of Neurotransmitter Dopamine from Whole Blood. <i>Nano Letters</i> , 2019, 19, 449-454.	4.5	80
23	Detection of Ethanol Concentration using a Generic Optical Sensor Platform. <i>Computacion Y Sistemas</i> , 2019, 23, .	0.2	2
24	High-efficiency Broadband Mid-infrared Flat Lens. <i>Advanced Optical Materials</i> , 2018, 6, 1800216.	3.6	9
25	Biodegradable Monocrystalline Silicon Photovoltaic Microcells as Power Supplies for Transient Biomedical Implants. <i>Advanced Energy Materials</i> , 2018, 8, 1703035.	10.2	98
26	Wireless optoelectronic photometers for monitoring neuronal dynamics in the deep brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E1374-E1383.	3.3	167
27	Superchiral Light Generation on Degenerate Achiral Surfaces. <i>Physical Review Letters</i> , 2018, 120, 137601.	2.9	58
28	Multi-spectral frequency selective mid-infrared microbolometers. <i>Optics Express</i> , 2018, 26, 32931.	1.7	13
29	Fully implantable optoelectronic systems for battery-free, multimodal operation in neuroscience research. <i>Nature Electronics</i> , 2018, 1, 652-660.	13.1	157
30	Covert infrared image encoding through imprinted plasmonic cavities. <i>Light: Science and Applications</i> , 2018, 7, 93.	7.7	51
31	Polyimide for silicon solar cells with double-sided textured pyramids. <i>Solar Energy Materials and Solar Cells</i> , 2018, 183, 200-204.	3.0	19
32	Broadband angle-independent antireflection coatings on nanostructured light trapping solar cells. <i>Physical Review Materials</i> , 2018, 2, .	0.9	6
33	Superchiral light generation on achiral nanostructured surfaces. , 2018, , .		1
34	Cavity-induced hybrid plasmon excitation for perfect infrared absorption. <i>Optics Letters</i> , 2018, 43, 6001.	1.7	11
35	Dynamically tunable extraordinary light absorption in monolayer graphene. <i>Physical Review B</i> , 2017, 96, .	1.1	43
36	Hybrid cavity-coupled plasmonic biosensors for low concentration, label-free and selective biomolecular detection. <i>Optics Express</i> , 2016, 24, 25785.	1.7	13

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37	Unified Electromagnetic-Electronic Design of Light Trapping Silicon Solar Cells. Scientific Reports, 2016, 6, 31013.	1.6	23
38	Polarization-independent actively tunable colour generation on imprinted plasmonic surfaces. Nature Communications, 2015, 6, 7337.	5.8	273
39	Multi-spectral infrared spectroscopy for robust plastic identification. Applied Optics, 2015, 54, 7396.	2.1	38
40	Hybrid Coupling Mechanism in a System Supporting High Order Diffraction, Plasmonic, and Cavity Resonances. Physical Review Letters, 2014, 113, 263902.	2.9	47
41	Negative Index Materials: Materials Selections and Growth Conditions for Large-Area, Multilayered, Visible Negative Index Metamaterials Formed by Nanotransfer Printing (Advanced Optical Materials) Tj ETQq1 1 0.784314 rgBT /Overl	3.6	22
42	Materials Selections and Growth Conditions for Large-Area, Multilayered, Visible Negative Index Metamaterials Formed by Nanotransfer Printing. Advanced Optical Materials, 2014, 2, 256-261.	3.6	22
43	Nanoimprinting Techniques for Large-Area Three-Dimensional Negative Index Metamaterials with Operation in the Visible and Telecom Bands. ACS Nano, 2014, 8, 5535-5542.	7.3	51
44	Total internal reflection of photorefractive spatial solitons at a metallic interface. , 2012, , .		0
45	An analytical analysis of the nonlinear modes of the coupled silicon-on-insulator waveguides. , 2011, , .		0
46	Omnidirectional reflector in a ternary metallo-dielectric structure. , 2011, , .		0
47	Properties of 1D soliton-plasmon interactions. , 2011, , .		0
48	Power-tunable plasmon resonance sensor using Kerr nonlinearity. , 2011, , .		0