

# Walter Jaimes Salcedo

## List of Publications by Year in descending order

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Version: 2024-02-01

53  
papers

355  
citations

840119

11  
h-index

839053

18  
g-index

53  
all docs

53  
docs citations

53  
times ranked

457  
citing authors

#	ARTICLE	IF	CITATIONS
1	SERS fluctuations of NAD molecules adsorbed on arrays of Au nanocylinders. <i>Optical Materials Express</i> , 2021, 11, 3154.	1.6	1
2	Electrical and optical characterizations of erbium doped MPS/PANI heterojunctions. <i>Applied Surface Science</i> , 2020, 529, 146994.	3.1	8
3	Wind Tunnel Assembly for dynamic pressure characterization. , 2019, , .		0
4	Multispectral colorimetric portable system for detecting metal ions in liquid media. , 2019, , .		0
5	The role of aluminum in the formation of macropores, microtubes of silicon and nickel made from porous silicon. <i>Journal of Alloys and Compounds</i> , 2019, 777, 554-561.	2.8	2
6	Optical enantioseparation of chiral molecules using asymmetric plasmonic nanoapertures. <i>Optical Materials Express</i> , 2019, 9, 1763.	1.6	15
7	Surface-enhanced Raman scattering from bowtie nanoaperture arrays. <i>Surface Science</i> , 2018, 676, 39-45.	0.8	14
8	Physical and Electrochemical Characterization of Crystalline Silicon Surfaces Modified by Aluminum. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1700543.	0.8	1
9	Huge enhancement of photoluminescence emission from porous silicon film doped with Cr(III) ions. <i>Journal of Luminescence</i> , 2018, 199, 109-111.	1.5	8
10	A New Sensor for Temperature Self-Protection of Integrated Circuits in CMOS Technology. , 2018, , .		3
11	Physical and chemical characterization of PANI/SiO <sub>2</sub> /MPS heterostructure to be used as high sensitivity chemosensor for naphthalene. <i>Sensors and Actuators B: Chemical</i> , 2018, 277, 445-455.	4.0	5
12	Improvement of trapping efficiency of Rayleigh particles using elliptical coaxial apertures. , 2017, , .		0
13	Portable multispectral system for bacteria growth rate monitoring. , 2017, , .		0
14	Electrochemical impedance study of fresh and passivated macroporous silicon for sensors. , 2017, , .		1
15	Portable Multispectral Colorimeter for Metallic Ion Detection and Classification. <i>Sensors</i> , 2017, 17, 1730.	2.1	9
16	Porous silicon passivation for applications in sensors and photovoltaics: Optical characterization. , 2016, , .		1
17	Optical characterization of one-dimensional porous silicon photonic crystals with effective refractive index gradient in depth. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2015, 212, 1975-1983.	0.8	10
18	Silicon microtubes made by immersing macroporous silicon into ammonium fluoride solution. <i>Materials Chemistry and Physics</i> , 2015, 160, 12-19.	2.0	5

#	ARTICLE	IF	CITATIONS
19	Surface plasmon enhanced up-conversion from NaYF <sub>4</sub> :Yb/Er/Gd nano-rods. Physical Chemistry Chemical Physics, 2015, 17, 16170-16177.	1.3	15
20	Polarization-dependent extraordinary optical transmission from upconversion nanoparticles. Nanoscale, 2015, 7, 18250-18258.	2.8	6
21	Mesoporous silicon: A new route to fabricate silicon-based nanotubes. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 1525-1530.	0.8	6
22	Correlation-based multi-shape granulometry with application in porous silicon nanomaterial characterization. Journal of Porous Materials, 2013, 20, 375-385.	1.3	15
23	Surface-Enhanced Resonance Raman Scattering (SERRS) Using Au Nanohole Arrays on Optical Fiber Tips. Plasmonics, 2013, 8, 1113-1121.	1.8	36
24	Study of the optical properties of the nickel deposited one-dimensional porous silicon photonic crystal. , 2013, , .		0
25	Photoluminescence-based oxygen sensor with platinum-octaethylporphyrin dye integrated into oxidized porous silicon layer. , 2013, , .		1
26	Porous Silicon Photonic Crystals: Influence of Electrolyte Composition on the Nanostructure and the Optical Response. ECS Transactions, 2012, 49, 315-322.	0.3	0
27	Three-Dimensional Acoustic Metamaterial with Localized Resonances. ECS Transactions, 2012, 49, 543-548.	0.3	0
28	The MOS Device Applied to Hydrogenated Gas Sensor Device. ECS Transactions, 2012, 49, 465-472.	0.3	0
29	Study on the Thermal Oxidation of Photonic Crystals for Sensor Applications. ECS Transactions, 2011, 39, 321-328.	0.3	3
30	Fabrication of Porous Anodic Alumina by Single-Step Anodization: Influence of the Molar Concentration and effect of the Chemical Etching. ECS Transactions, 2011, 39, 401-408.	0.3	0
31	A New Correlation-Based Granulometry Algorithm with Application in Characterizing Porous Silicon Nanomaterials. ECS Transactions, 2010, 31, 273-280.	0.3	1
32	The Nickel Micro-tubes Fabrication by Galvanic Displacement Method Using Macroporous Silicon as Template. ECS Transactions, 2010, 31, 179-187.	0.3	2
33	Nickel Salt Effect on Macroporous Silicon Immersed in Fluoride Solution: From Silicon Microtubes to Nickel Microtubes. ECS Transactions, 2010, 31, 295-303.	0.3	0
34	Porous Silicon Heterostructures for Refractometer Device Application. ECS Transactions, 2009, 23, 499-506.	0.3	1
35	Sensitivity Analysis of Pd-MOS Structure for Hydrogenated Gases by Scanning Light Pulse Technique. ECS Transactions, 2009, 23, 29-35.	0.3	0
36	Backside contact effect on the morphological and optical features of porous silicon photonic crystals. Microelectronics Journal, 2009, 40, 744-748.	1.1	9

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37	Anodic porous alumina structural characteristics study based on SEM image processing and analysis. <i>Microelectronics Journal</i> , 2009, 40, 844-847.	1.1	20
38	Porous silicon optical cavity structure applied to high sensitivity organic solvent sensor. <i>Microelectronics Journal</i> , 2008, 39, 499-506.	1.1	37
39	Nanocomposite of Porous Silicon and Methylene Blue Molecules for Optical Gas Sensor Application. <i>ECS Transactions</i> , 2008, 14, 57-62.	0.3	2
40	Electrical Transport Mechanisms in Mono-Layer Phthalocyanine Device. <i>ECS Transactions</i> , 2008, 14, 597-606.	0.3	2
41	Effect of Number of Layers on the Optical Response of Porous Silicon Bragg's Mirrors. <i>ECS Transactions</i> , 2007, 9, 525-530.	0.3	3
42	Macroporous Silicon Structure Functionalized by Methylene Blue to pH Measurements Application. <i>ECS Transactions</i> , 2007, 9, 579-586.	0.3	0
43	Fractal Brownian motion for feature extraction in noisy signals from gas sensors. , 2007, , .		0
44	Regular ordered gold metallic array and Raman scattering intensification. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2007, 204, 973-978.	0.8	1
45	Committee machine for LPG calorific power classification. <i>Sensors and Actuators B: Chemical</i> , 2006, 116, 62-65.	4.0	5
46	Self-assembled systems obtained by chemical and electrochemical techniques for photonic crystal fabrication. <i>Microelectronics Journal</i> , 2005, 36, 207-211.	1.1	5
47	Photoluminescence quenching effect on porous silicon films for gas sensors application. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2004, 60, 1065-1070.	2.0	47
48	Enhancement of the Raman phonon spectra of porous silicon films by H+ ion implantation. <i>Vibrational Spectroscopy</i> , 2004, 36, 135-140.	1.2	2
49	Porous silicon patterned by hydrogen ion implantation. <i>Sensors and Actuators B: Chemical</i> , 2001, 76, 343-346.	4.0	21
50	Changes in the porous silicon structure induced by laser radiation. <i>Journal of Raman Spectroscopy</i> , 2001, 32, 151-157.	1.2	12
51	Optical properties modulation of porous silicon layers for optoelectronics applications. , 2001, 4425, 277.		0
52	Influence of laser excitation on raman and photoluminescence spectra and FTIR study of porous silicon layers. <i>Brazilian Journal of Physics</i> , 1999, 29, 751-755.	0.7	12
53	Polarization effects on the Raman and photoluminescence spectra of porous silicon layers. <i>Journal of Raman Spectroscopy</i> , 1999, 30, 29-36.	1.2	8