

Walter Jaimes Salcedo

List of Publications by Year in descending order

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53
papers

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docs citations

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times ranked

457
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Porous silicon optical cavity structure applied to high sensitivity organic solvent sensor. <i>Microelectronics Journal</i> , 2008, 39, 499-506.	1.1	37
3	Surface-Enhanced Resonance Raman Scattering (SERRS) Using Au Nanohole Arrays on Optical Fiber Tips. <i>Plasmonics</i> , 2013, 8, 1113-1121.	1.8	36
4	Porous silicon patterned by hydrogen ion implantation. <i>Sensors and Actuators B: Chemical</i> , 2001, 76, 343-346.	4.0	21
5	Anodic porous alumina structural characteristics study based on SEM image processing and analysis. <i>Microelectronics Journal</i> , 2009, 40, 844-847.	1.1	20
6	Correlation-based multi-shape granulometry with application in porous silicon nanomaterial characterization. <i>Journal of Porous Materials</i> , 2013, 20, 375-385.	1.3	15
7	Surface plasmon enhanced up-conversion from NaYF ₄ :Yb/Er/Gd nano-rods. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 16170-16177.	1.3	15
8	Optical enantioseparation of chiral molecules using asymmetric plasmonic nanoapertures. <i>Optical Materials Express</i> , 2019, 9, 1763.	1.6	15
9	Surface-enhanced Raman scattering from bowtie nanoaperture arrays. <i>Surface Science</i> , 2018, 676, 39-45.	0.8	14
10	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
11	Changes in the porous silicon structure induced by laser radiation. <i>Journal of Raman Spectroscopy</i> , 2001, 32, 151-157.	1.2	12
12	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
13	Backside contact effect on the morphological and optical features of porous silicon photonic crystals. <i>Microelectronics Journal</i> , 2009, 40, 744-748.	1.1	9
14	Portable Multispectral Colorimeter for Metallic Ion Detection and Classification. <i>Sensors</i> , 2017, 17, 1730.	2.1	9
15	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
16	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
17	Electrical and optical characterizations of erbium doped MPS/PANI heterojunctions. <i>Applied Surface Science</i> , 2020, 529, 146994.	3.1	8
18	Mesoporous silicon: A new route to fabricate silicon-based nanotubes. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014, 211, 1525-1530.	0.8	6

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19	Polarization-dependent extraordinary optical transmission from upconversion nanoparticles. <i>Nanoscale</i> , 2015, 7, 18250-18258.	2.8	6
20	Self-assembled systems obtained by chemical and electrochemical techniques for photonic crystal fabrication. <i>Microelectronics Journal</i> , 2005, 36, 207-211.	1.1	5
21	Committee machine for LPG calorific power classification. <i>Sensors and Actuators B: Chemical</i> , 2006, 116, 62-65.	4.0	5
22	Silicon microtubes made by immersing macroporous silicon into ammonium fluoride solution. <i>Materials Chemistry and Physics</i> , 2015, 160, 12-19.	2.0	5
23	Physical and chemical characterization of PANI/SiO ₂ /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
24	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
25	Study on the Thermal Oxidation of Photonic Crystals for Sensor Applications. <i>ECS Transactions</i> , 2011, 39, 321-328.	0.3	3
26	A New Sensor for Temperature Self-Protection of Integrated Circuits in CMOS Technology. , 2018, , .		3
27	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
28	Nanocomposite of Porous Silicon and Methylene Blue Molecules for Optical Gas Sensor Application. <i>ECS Transactions</i> , 2008, 14, 57-62.	0.3	2
29	Electrical Transport Mechanisms in Mono-Layer Phthalocyanine Device. <i>ECS Transactions</i> , 2008, 14, 597-606.	0.3	2
30	The Nickel Micro-tubes Fabrication by Galvanic Displacement Method Using Macroporous Silicon as Template. <i>ECS Transactions</i> , 2010, 31, 179-187.	0.3	2
31	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
32	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
33	Porous Silicon Heterostructures for Refractometer Device Application. <i>ECS Transactions</i> , 2009, 23, 499-506.	0.3	1
34	A New Correlation-Based Granulometry Algorithm with Application in Characterizing Porous Silicon Nanomaterials. <i>ECS Transactions</i> , 2010, 31, 273-280.	0.3	1
35	Photoluminescence-based oxygen sensor with platinum-octaethylporphyrin dye integrated into oxidized porous silicon layer. , 2013, , .		1
36	Porous silicon passivation for applications in sensors and photovoltaics: Optical characterization. , 2016, , .		1

#	ARTICLE	IF	CITATIONS
37	Electrochemical impedance study of fresh and passivated macroporous silicon for sensors. , 2017, , .		1
38	Physical and Electrochemical Characterization of Crystalline Silicon Surfaces Modified by Aluminum. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1700543.	0.8	1
39	SERS fluctuations of NAD molecules adsorbed on arrays of Au nanocylinders. Optical Materials Express, 2021, 11, 3154.	1.6	1
40	Optical properties modulation of porous silicon layers for optoelectronics applications. , 2001, 4425, 277.		0
41	Macroporous Silicon Structure Functionalized by Methylene Blue to pH Measurements Application. ECS Transactions, 2007, 9, 579-586.	0.3	0
42	Fractal Brownian motion for feature extraction in noisy signals from gas sensors. , 2007, , .		0
43	Sensitivity Analysis of Pd-MOS Structure for Hydrogenated Gases by Scanning Light Pulse Technique. ECS Transactions, 2009, 23, 29-35.	0.3	0
44	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
45	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
46	Porous Silicon Photonic Crystals: Influence of Electrolyte Composition on the Nanostructure and the Optical Response. ECS Transactions, 2012, 49, 315-322.	0.3	0
47	Three-Dimensional Acoustic Metamaterial with Localized Resonances. ECS Transactions, 2012, 49, 543-548.	0.3	0
48	The MOS Device Applied to Hydrogenated Gas Sensor Device. ECS Transactions, 2012, 49, 465-472.	0.3	0
49	Study of the optical properties of the nickel deposited one-dimensional porous silicon photonic crystal. , 2013, , .		0
50	Improvement of trapping efficiency of Rayleigh particles using elliptical coaxial apertures. , 2017, , .		0
51	Portable multispectral system for bacteria growth rate monitoring. , 2017, , .		0
52	Wind Tunnel Assembly for dynamic pressure characterization. , 2019, , .		0
53	Multispectral colorimetric portable system for detecting metal ions in liquid media. , 2019, , .		0