

Walter Jaimes Salcedo

List of Publications by Year in descending order

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53
papers

355
citations

840776
11
h-index

839539
18
g-index

53
all docs

53
docs citations

53
times ranked

457
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Photoluminescence quenching effect on porous silicon films for gas sensors application. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2004, 60, 1065-1070. | 3.9 | 47 |
| 2 | Porous silicon optical cavity structure applied to high sensitivity organic solvent sensor. Microelectronics Journal, 2008, 39, 499-506. | 2.0 | 37 |
| 3 | Surface-Enhanced Resonance Raman Scattering (SERRS) Using Au Nanohole Arrays on Optical Fiber Tips. Plasmonics, 2013, 8, 1113-1121. | 3.4 | 36 |
| 4 | Porous silicon patterned by hydrogen ion implantation. Sensors and Actuators B: Chemical, 2001, 76, 343-346. | 7.8 | 21 |
| 5 | Anodic porous alumina structural characteristics study based on SEM image processing and analysis. Microelectronics Journal, 2009, 40, 844-847. | 2.0 | 20 |
| 6 | Correlation-based multi-shape granulometry with application in porous silicon nanomaterial characterization. Journal of Porous Materials, 2013, 20, 375-385. | 2.6 | 15 |
| 7 | Surface plasmon enhanced up-conversion from NaYF ₄ :Yb/Er/Gd nano-rods. Physical Chemistry Chemical Physics, 2015, 17, 16170-16177. | 2.8 | 15 |
| 8 | Optical enantioseparation of chiral molecules using asymmetric plasmonic nanoapertures. Optical Materials Express, 2019, 9, 1763. | 3.0 | 15 |
| 9 | Surface-enhanced Raman scattering from bowtie nanoaperture arrays. Surface Science, 2018, 676, 39-45. | 1.9 | 14 |
| 10 | Influence of laser excitation on raman and photoluminescence spectra and FTIR study of porous silicon layers. Brazilian Journal of Physics, 1999, 29, 751-755. | 1.4 | 12 |
| 11 | Changes in the porous silicon structure induced by laser radiation. Journal of Raman Spectroscopy, 2001, 32, 151-157. | 2.5 | 12 |
| 12 | Optical characterization of one-dimensional porous silicon photonic crystals with effective refractive index gradient in depth. Physica Status Solidi (A) Applications and Materials Science, 2015, 212, 1975-1983. | 1.8 | 10 |
| 13 | Backside contact effect on the morphological and optical features of porous silicon photonic crystals. Microelectronics Journal, 2009, 40, 744-748. | 2.0 | 9 |
| 14 | Portable Multispectral Colorimeter for Metallic Ion Detection and Classification. Sensors, 2017, 17, 1730. | 3.8 | 9 |
| 15 | Polarization effects on the Raman and photoluminescence spectra of porous silicon layers. Journal of Raman Spectroscopy, 1999, 30, 29-36. | 2.5 | 8 |
| 16 | Huge enhancement of photoluminescence emission from porous silicon film doped with Cr(III) ions. Journal of Luminescence, 2018, 199, 109-111. | 3.1 | 8 |
| 17 | Electrical and optical characterizations of erbium doped MPS/PANI heterojunctions. Applied Surface Science, 2020, 529, 146994. | 6.1 | 8 |
| 18 | Mesoporous silicon: A new route to fabricate silicon-based nanotubes. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 1525-1530. | 1.8 | 6 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Polarization-dependent extraordinary optical transmission from upconversion nanoparticles. <i>Nanoscale</i> , 2015, 7, 18250-18258. | 5.6 | 6 |
| 20 | Self-assembled systems obtained by chemical and electrochemical techniques for photonic crystal fabrication. <i>Microelectronics Journal</i> , 2005, 36, 207-211. | 2.0 | 5 |
| 21 | Committee machine for LPG calorific power classification. <i>Sensors and Actuators B: Chemical</i> , 2006, 116, 62-65. | 7.8 | 5 |
| 22 | Silicon microtubes made by immersing macroporous silicon into ammonium fluoride solution. <i>Materials Chemistry and Physics</i> , 2015, 160, 12-19. | 4.0 | 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. | 7.8 | 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. | 0.5 | 3 |
| 25 | Study on the Thermal Oxidation of Photonic Crystals for Sensor Applications. <i>ECS Transactions</i> , 2011, 39, 321-328. | 0.5 | 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. | 2.2 | 2 |
| 28 | Nanocomposite of Porous Silicon and Methylene Blue Molecules for Optical Gas Sensor Application. <i>ECS Transactions</i> , 2008, 14, 57-62. | 0.5 | 2 |
| 29 | Electrical Transport Mechanisms in Mono-Layer Phthalocyanine Device. <i>ECS Transactions</i> , 2008, 14, 597-606. | 0.5 | 2 |
| 30 | The Nickel Micro-tubes Fabrication by Galvanic Displacement Method Using Macroporous Silicon as Template. <i>ECS Transactions</i> , 2010, 31, 179-187. | 0.5 | 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. | 5.5 | 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. | 1.8 | 1 |
| 33 | Porous Silicon Heterostructures for Refractometer Device Application. <i>ECS Transactions</i> , 2009, 23, 499-506. | 0.5 | 1 |
| 34 | A New Correlation-Based Granulometry Algorithm with Application in Characterizing Porous Silicon Nanomaterials. <i>ECS Transactions</i> , 2010, 31, 273-280. | 0.5 | 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 |

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|----|---|-----|-----------|
| 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. | 1.8 | 1 |
| 39 | SERS fluctuations of NAD molecules adsorbed on arrays of Au nanocylinders. Optical Materials Express, 2021, 11, 3154. | 3.0 | 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. | 0.5 | 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. | 0.5 | 0 |
| 44 | Nickel Salt Effect on Macroporous Silicon Immersed in Fluoride Solution: From Silicon Microtubes to Nickel Microtubes. ECS Transactions, 2010, 31, 295-303. | 0.5 | 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. | 0.5 | 0 |
| 46 | Porous Silicon Photonic Crystals: Influence of Electrolyte Composition on the Nanostructure and the Optical Response. ECS Transactions, 2012, 49, 315-322. | 0.5 | 0 |
| 47 | Three-Dimensional Acoustic Metamaterial with Localized Resonances. ECS Transactions, 2012, 49, 543-548. | 0.5 | 0 |
| 48 | The MOS Device Applied to Hydrogenated Gas Sensor Device. ECS Transactions, 2012, 49, 465-472. | 0.5 | 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 |