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Coordinación de Planeación, Evaluación y
Simplificación de la Gestión Institucional
Reporte individual



AUGUSTO GARCIA VALENZUELA

Datos Generales

Nombre: AUGUSTO GARCIA VALENZUELA

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Nombramientos

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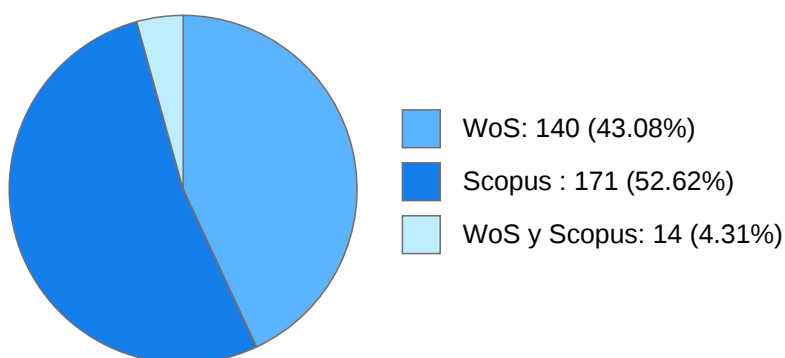
Estímulos, programas, premios y reconocimientos

SNI III 2014 - VIGENTE
SNI II - 2013
PRIDE D - 2024
RDUNJA Innovación tecnológica y diseño industrial 2006

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DOCUMENTOS EN REVISTAS

Histórico de Documentos



#	Título	Autores	Revista	Año
1	Analysis of the radiative corrections and dynamic extensions to the local field in the effective refractive index of particle suspensions	OMAR WILFRIDO VAZQUEZ ESTRADA AUGUSTO GARCIA VALENZUELA ANAYS ACEVEDO BARRERA et al.	JOURNAL OF QUANTITATIVE SPECTROSCOPY & RADIATIVE TRANSFER	2025
2	Measurement of resistivity of biofluids in the presence of an electrical double layer	CELIA ANGELINA SANCHEZ PEREZ AUGUSTO GARCIA VALENZUELA Jose H. Valladares Perez et al.	MEASUREMENT SCIENCE AND TECHNOLOGY	2025
3	Comprehensive study on the accuracy of the anomalous diffraction approximation	NADIA ESTEFANIA ALVAREZ CHAVEZ ANAYS ACEVEDO BARRERA AUGUSTO GARCIA VALENZUELA et al.	APPLIED OPTICS	2025
4	Envelope Demodulation via Maximum Subsampling Applied to Impedance Plethysmography Signals	DANIEL ALBERTO ARCOS SANTIAGO BRYAN EMMANUEL ALVAREZ SERNA AUGUSTO GARCIA VALENZUELA et al.	4TH EUROPEAN SYMPOSIUM ON FIRE SAFETY SCIENCE	2025
5	Analysis of Light Transmission in Skin Tissue Considering Scattering Condition in Beer-Lambert Type Models	AUGUSTO GARCIA VALENZUELA CELIA ANGELINA SANCHEZ PEREZ Valladares-Pérez J. et al.	IFMBE Proceedings	2024
6	Experimental assessment of the effective-medium approach for disordered monolayers of particles with high scattering losses	ANAYS ACEVEDO BARRERA RICARDO MENDEZ FRAGOSO AUGUSTO GARCIA VALENZUELA	OPTICS LETTERS	2024

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7	Detailed comparison of recent?and dissimilar?effective-medium models incorporating dependent scattering	ALEXANDER NAHMAD ROHEN AUGUSTO GARCIA VALENZUELA	JOURNAL OF THE OPTICAL SOCIETY OF AMERICA A-OPTICS IMAGE SCIENCE AND VISION	2024
8	Multiple-scattering model for the effective refractive index of dense suspensions of forward-scattering particles	ALEXANDER NAHMAD ROHEN AUGUSTO GARCIA VALENZUELA	JOURNAL OF THE OPTICAL SOCIETY OF AMERICA A-OPTICS IMAGE SCIENCE AND VISION	2023
9	Functional refractive-index sensor by internal reflection of diffuse light	DIANA PINEDA VAZQUEZ AUGUSTO GARCIA VALENZUELA	SENSOR REVIEW	2023
10	Method for measuring the extinction coefficient of fluorescing media within the emission band	AUGUSTO GARCIA VALENZUELA ENOCH GUTIERREZ HERRERA Reyes-Alberto M.	APPLIED OPTICS	2023
11	Full dynamic corrections to the Maxwell Garnett mixing formula and corresponding extensions beyond the dipolar approximation	AUGUSTO GARCIA VALENZUELA ANAYS ACEVEDO BARRERA OMAR WILFRIDO VAZQUEZ ESTRADA et al.	JOURNAL OF QUANTITATIVE SPECTROSCOPY & RADIATIVE TRANSFER	2023
12	Variable-Capacitance Sensor to Measure the Evaporation Rate and Lifetime of Microliter Droplets	JORGE ALBERTO UC MARTIN ALICIA ORTEGA AGUILAR ASUR GUADARRAMA SANTANA et al.	IEEE SENSORS JOURNAL	2023
13	An efficient analysis of oblique reflection of airborne ultrasound beams from thin membranes for gas sensing	ROBERTO VELASCO SEGURA GABRIEL EDUARDO SANDOVAL ROMERO AUGUSTO GARCIA VALENZUELA et al.	JOURNAL OF THE ACOUSTICAL SOCIETY OF AMERICA	2022
14	Complete Dynamic Extensions to Maxwell Garnett?s Mixing Formula and the Origin of Dependent Scattering in Nanofluids	AUGUSTO GARCIA VALENZUELA ANAYS ACEVEDO BARRERA ALEXANDER NAHMAD ROHEN et al.	International Conference On Metamaterials, Photonic Crystals And Plasmonics	2022
15	Visual Assessment of Blood Plasma versus Optical Transmittance and Refractive Index Measurements for Quantifying Lipemia	ARGELIA PEREZ PACHECO ROSA MARIA QUISPE SICCHA AUGUSTO GARCIA VALENZUELA et al.	Diagnostics	2022

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16	Enhancement of Light Absorption by Leaky Modes in a Random Plasmonic Metasurface	ALEJANDRO REYES CORONADO GIUSEPPE PIRRUCCIO JONATHAN ALEXIS URRUTIA ANGUIANO et al.	JOURNAL OF PHYSICAL CHEMISTRY C	2022
17	An optical sensor combining surface plasmon resonance, light extinction, and near-critical angle reflection, for thin liquid film biochemical sensing	ABRAHAM OCHOA GUERRERO LUIS FERNANDO OLGUIN CONTRERAS AUGUSTO GARCIA VALENZUELA et al.	OPTICS AND LASERS IN ENGINEERING	2022
18	Fast and accurate optical determination of gold-nanofilms thickness	OMAR WILFRIDO VAZQUEZ ESTRADA LUIS FERNANDO OLGUIN CONTRERAS AUGUSTO GARCIA VALENZUELA et al.	OPTICS AND LASER TECHNOLOGY	2021
19	Basic optical sensor for monitoring leukocyte properties in suspension	ARGELIA PEREZ PACHECO NADIA ESTEFANIA ALVAREZ CHAVEZ AUGUSTO GARCIA VALENZUELA et al.	OPTICAL AND QUANTUM ELECTRONICS	2021
20	Unambiguous derivation of the effective refractive index of biological suspensions and an extension to dense tissue such as blood	ALEXANDER NAHMAD ROHEN AUGUSTO GARCIA VALENZUELA	JOURNAL OF THE OPTICAL SOCIETY OF AMERICA A-OPTICS IMAGE SCIENCE AND VISION	2021
21	Analysis of wavelength-scale 1D depth-dependent refractive-index gradients at an interface by their effects on the internal reflectance near the critical angle	OMAR WILFRIDO VAZQUEZ ESTRADA ALEXANDER NAHMAD ROHEN AUGUSTO GARCIA VALENZUELA et al.	OPTICS LETTERS	2021
22	Probing bio-tissue films by optical internal reflectivity: modeling and measurements	AUGUSTO GARCIA VALENZUELA Anays Acevedo-Barrera	APPLIED OPTICS	2021
23	Numerical simulation of ultrasound oblique reflection in a 2D gas-gas interface	ROBERTO VELASCO SEGURA AUGUSTO GARCIA VALENZUELA GABRIEL EDUARDO SANDOVAL ROMERO et al.	Proceedings of Meetings on Acoustics	2020
24	Optical reflectivity of an interface with random refractive-index-contrast patterns	AUGUSTO GARCIA VALENZUELA Acevedo-Barrera A. Vázquez-Estrada O.	APPLIED OPTICS	2020
25	Optical device and methodology for optical sensing of hemolysis in hypotonic media	AUGUSTO GARCIA VALENZUELA Roberto Marquez-Islas Argelia Perez-Pacheco et al.	MEASUREMENT SCIENCE AND TECHNOLOGY	2020
26	Optical method for sensing surface coverage by unicellular organisms	OMAR WILFRIDO VAZQUEZ ESTRADA AUGUSTO GARCIA VALENZUELA Márquez-Islas R. et al.	OPTICS AND LASER TECHNOLOGY	2019

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27	Mie-Type Calculation of the Generalized Electromagnetic Nonlocal Conductivity Tensor for a Sphere and Its Equivalence to the T-Matrix Operator	EDAHI ANTONIO GUTIERREZ REYES RUBEN GERARDO BARRERA Y PEREZ AUGUSTO GARCIA VALENZUELA	MATHEMATICAL PROBLEMS IN ENGINEERING	2019
28	Internal reflectance from a disordered monolayer of small gold nanoparticles on a glass substrate: Theory vs. experiment	DIANA PINEDA VAZQUEZ ARTURO RODRIGUEZ GOMEZ ALEJANDRO REYES CORONADO et al.	INTERNATIONAL CONFERENCES & EXHIBITION ON NANOTECHNOLOGIES, ORGANIC ELECTRONICS & NANOMEDICINE, NANOTEXNOLOGY 2020, PT 1	2019
29	Requirements and applications of accurate modeling of the optical transmission of transparent conducting coatings	BENITO JUAREZ GARCIA JESUS GONZALEZ GUTIERREZ AUGUSTO GARCIA VALENZUELA et al.	APPLIED OPTICS	2019
30	Optical sizing of nanoparticles in thin films of nonabsorbing nanocolloids	AUGUSTO GARCIA VALENZUELA Gesuri Morales-Luna	APPLIED OPTICS	2019
31	Heat transport considerations in the mathematical analysis of the photoacoustic and photothermal effects	EDAHI ANTONIO GUTIERREZ REYES CRESCENCIO GARCIA SEGUNDO AUGUSTO GARCIA VALENZUELA et al.	Journal Of Physics Communications	2019
32	Analytical approximation to the complex refractive index of nanofluids with extended applicability	AUGUSTO GARCIA VALENZUELA Acevedo-Barrera A.	OPTICS EXPRESS	2019
33	On the extinction coefficient of light in non-absorbing nanoparticle suspensions	AUGUSTO GARCIA VALENZUELA Márquez-Islas R.	APPLIED OPTICS	2018
34	Analytical modeling of optical reflectivity of random plasmonic nano-monolayers	ALEJANDRO REYES CORONADO OMAR WILFRIDO VAZQUEZ ESTRADA AUGUSTO GARCIA VALENZUELA et al.	OPTICS EXPRESS	2018
35	Theoretical assessment of single-frequency electrical sensors for continuous monitoring of cell lysis in dilute suspensions	AUGUSTO GARCIA VALENZUELA Acevedo-Barrera A.	Sensing and Bio-Sensing Research	2018
36	Optical Coherent Reflection from a Confined Colloidal Film: Modeling and Experiment	AUGUSTO GARCIA VALENZUELA RUBEN GERARDO BARRERA Y PEREZ Gesuri Morales-Luna	JOURNAL OF PHYSICAL CHEMISTRY B	2018

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37	Analysis of the transfer function for layered piezoelectric ultrasonic sensors	CRESCENCIO GARCIA SEGUNDO AUGUSTO GARCIA VALENZUELA ASUR GUADARRAMA SANTANA et al.	AIP ADVANCES	2017
38	Reflectivity and transmissivity of a surface covered by a disordered monolayer of large and tenuous particles: theory versus experiment	OMAR WILFRIDO VAZQUEZ ESTRADA AUGUSTO GARCIA VALENZUELA	APPLIED OPTICS	2017
39	Viability and fundamental limits of critical-angle refractometry of turbid colloids	AUGUSTO GARCIA VALENZUELA Morales-Luna, Gesuri	MEASUREMENT SCIENCE AND TECHNOLOGY	2017
40	Reducing light-scattering losses in nanocolloids by increasing average inter-particle distance	AUGUSTO GARCIA VALENZUELA RUBEN GERARDO BARRERA Y PEREZ Marquez-Islas, Roberto	APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING	2017
41	Modeling of the refractive index and composition of luminescent nanometric chlorinated-silicon nitride films with embedded Si-quantum dots	AUGUSTO GARCIA VALENZUELA JUAN CARLOS ALONSO HUITRON Rodriguez-Gomez, A. et al.	JOURNAL OF APPLIED PHYSICS	2016
42	Collimated light reflection and transmission of a surface partially covered by large and tenuous particles	OMAR WILFRIDO VAZQUEZ ESTRADA AUGUSTO GARCIA VALENZUELA	APPLIED OPTICS	2016
43	Experimental Test of Reflectivity Formulas for Turbid Colloids: Beyond the Fresnel Reflection Amplitudes	AUGUSTO GARCIA VALENZUELA RUBEN GERARDO BARRERA Y PEREZ Morales-Luna G. et al.	JOURNAL OF PHYSICAL CHEMISTRY B	2016
44	A possible optical gauge for supervising particle size in nanofluids	AUGUSTO GARCIA VALENZUELA OMAR WILFRIDO VAZQUEZ ESTRADA Morales-Luna, G. et al.	INTERNATIONAL CONFERENCES & EXHIBITION ON NANOTECHNOLOGIES, ORGANIC ELECTRONICS & NANOMEDICINE, NANOTECHNOLOGY 2020, PT 1	2016
45	Sensitivity of optical reflectance to the deposition of plasmonic nanoparticles and limits of detection	OMAR WILFRIDO VAZQUEZ ESTRADA ALEJANDRO REYES CORONADO ALIPIO GUSTAVO CALLES MARTINEZ et al.	JOURNAL OF NANOPHOTONICS	2016

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46	Reflection of diffuse light from dielectric one-dimensional rough surfaces	AUGUSTO GARCIA VALENZUELA Gonzalez-Alcalde, Alma K. Mendez, Eugenio R. et al.	JOURNAL OF THE OPTICAL SOCIETY OF AMERICA A-OPTICS IMAGE SCIENCE AND VISION	2016
47	Optical reflectivity as an inspection tool for metallic nanoparticles deposited randomly on a flat substrate	OMAR WILFRIDO VAZQUEZ ESTRADA ALIPIO GUSTAVO CALLES MARTINEZ ALEJANDRO REYES CORONADO et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2015
48	Feasibility of sizing metallic nanoparticles in concentrated suspensions from effective optical properties	OMAR WILFRIDO VAZQUEZ ESTRADA AUGUSTO GARCIA VALENZUELA Morales-Luna G. et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2015
49	On the effective refractive index of blood	ALEXANDER NAHMAD ROHEN AUGUSTO GARCIA VALENZUELA Contreras-Tello H. et al.	PHYSICA SCRIPTA	2015
50	Nanostructured Ti thin films by magnetron sputtering at oblique angles	AUGUSTO GARCIA VALENZUELA Alvarez R. Garcia-Martin J.M. et al.	JOURNAL OF PHYSICS D-APPLIED PHYSICS	2015
51	Bioelectric signal measuring system	ASUR GUADARRAMA SANTANA AUGUSTO GARCIA VALENZUELA Pólo-Parada L.	4TH EUROPEAN SYMPOSIUM ON FIRE SAFETY SCIENCE	2015
52	Frequency analysis for an extended photoacoustic transport model	V. M. Moock B. ReyesRamirez CRESCENCIO GARCIA SEGUNDO et al.	OPTICS LETTERS	2015
53	Fano-type resonances in the reflectance spectra from dense colloidal films	AUGUSTO GARCIA VALENZUELA Olivares, J. A. GalvanMiyoshi, J. M. et al.	OPTICS COMMUNICATIO NS	2015
54	Assessment of the characterization of nonabsorbing nanoparticles in suspension from effective optical properties	R. MarquezIslas CELIA ANGELINA SANCHEZ PEREZ AUGUSTO GARCIA VALENZUELA	APPLIED OPTICS	2015

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55	Determination of refractive index, size, and concentration of nonabsorbing colloidal nanoparticles from measurements of the complex effective refractive index	Roberto Marquez Islas CELIA ANGELINA SANCHEZ PEREZ AUGUSTO GARCIA VALENZUELA	OPTICS LETTERS	2014
56	Optical reflectivity of a disordered monolayer of highly scattering particles: Coherent scattering model versus experiment	OMAR WILFRIDO VAZQUEZ ESTRADA AUGUSTO GARCIA VALENZUELA	JOURNAL OF THE OPTICAL SOCIETY OF AMERICA A-OPTICS IMAGE SCIENCE AND VISION	2014
57	An examination of polyvinylidene fluoride capacitive sensors as ultrasound transducer for imaging applications	B. Reyes Ramirez CRESCENCIO GARCIA SEGUNDO AUGUSTO GARCIA VALENZUELA	MEASUREMENT SCIENCE AND TECHNOLOGY	2014
58	Extension of Fresnel's formulas for turbid colloidal suspensions: A rigorous treatment	EDAHI ANTONIO GUTIERREZ REYES AUGUSTO GARCIA VALENZUELA RUBEN GERARDO BARRERA Y PEREZ	JOURNAL OF PHYSICAL CHEMISTRY B	2014
59	Understanding the performance of Abbe-type refractometers with optically absorbing fluids	H. Contreras Tello R. Marquez Islas OMAR WILFRIDO VAZQUEZ ESTRADA et al.	MEASUREMENT SCIENCE AND TECHNOLOGY	2014
60	Refractive index measurement of turbid media by transmission of backscattered light near the critical angle	H. Contreras Tello AUGUSTO GARCIA VALENZUELA	APPLIED OPTICS	2014
61	Drying dynamics of polymers films by an interferometric technique	AUGUSTO GARCIA VALENZUELA Olivares, J. A. Galvan-Miyoshi, J. M. et al.	PROGRESS IN ORGANIC COATINGS	2014
62	Indirect light collector for interior lighting	CELIA ANGELINA SANCHEZ PEREZ AUGUSTO GARCIA VALENZUELA SALVADOR CARLOS CUEVAS CARDONA et al.	Energy Procedia	2014
63	The refractive index of non-absorbing nanofluids and applications	AUGUSTO GARCIA VALENZUELA CELIA ANGELINA SANCHEZ PEREZ RUBEN GERARDO BARRERA Y PEREZ et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2014
64	On the spectral response of thick piezoelectric capacitive sensors for arrays in imagenology applications	CRESCENCIO GARCIA SEGUNDO AUGUSTO GARCIA VALENZUELA Reyes-Ramírez B.	Progress in Biomedical Optics and Imaging	2014

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65	Interdigitated capacitance sensors in the mm scale with sub-femtoFarad resolution suitable for monitoring processes in liquid films	ASUR GUADARRAMA SANTANA AUGUSTO GARCIA VALENZUELA Pérez-Jiménez F. et al.	REVISTA MEXICANA DE FISICA	2014
66	Evolution of the optical reflectivity of a monolayer of nanoparticles during its growth on a dielectric thin film	AUGUSTO GARCIA VALENZUELA Haro-Poniatowski, E. Toudert, J. et al.	APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING	2013
67	Optical model enabling the use of Abbe-type refractometers on turbid suspensions	AUGUSTO GARCIA VALENZUELA Humberto Contreras Tello	OPTICS LETTERS	2013
68	Influence of surface roughness on the diffuse to near-normal viewing reflectance factor of coatings and its consequences on color measurements	AUGUSTO GARCIA VALENZUELA Cuppo, F. L. S. Olivares, J. A.	COLOR RESEARCH AND APPLICATION	2013
69	Effect of thickness on the photoluminescence of silicon quantum dots embedded in silicon nitride films	A. Rodriguez Gomez AUGUSTO GARCIA VALENZUELA JUAN CARLOS ALONSO HUITRON et al.	JOURNAL OF APPLIED PHYSICS	2013
70	Insights into the dependent-scattering contributions to the extinction coefficient in highly scattering suspensions	AUGUSTO GARCIA VALENZUELA H. Contreras Tello Olivares, JA et al.	JOURNAL OF THE OPTICAL SOCIETY OF AMERICA A-OPTICS IMAGE SCIENCE AND VISION	2013
71	Spectral response analysis of PVDF capacitive sensors	CRESCENCIO GARCIA SEGUNDO AUGUSTO GARCIA VALENZUELA Reyes-Ramírez B.	4TH EUROPEAN SYMPOSIUM ON FIRE SAFETY SCIENCE	2013
72	Rigorous modelling of light's intensity angular-profile in Abbe refractometers with absorbing homogeneous fluids	AUGUSTO GARCIA VALENZUELA CELIA ANGELINA SANCHEZ PEREZ Contreras-Tello H. et al.	4TH EUROPEAN SYMPOSIUM ON FIRE SAFETY SCIENCE	2013
73	Overview of an effective-medium approach to the reflection and refraction of light at a turbid colloidal half-space	EDAHI ANTONIO GUTIERREZ REYES AUGUSTO GARCIA VALENZUELA RUBEN GERARDO BARRERA Y PEREZ	PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS	2012

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74	Multiple-scattering model for the coherent reflection and transmission of light from a disordered monolayer of particles	AUGUSTO GARCIA VALENZUELA EDAHI ANTONIO GUTIERREZ REYES RUBEN GERARDO BARRERA Y PEREZ	JOURNAL OF THE OPTICAL SOCIETY OF AMERICA A-OPTICS IMAGE SCIENCE AND VISION	2012
75	Reflectivity of a disordered monolayer estimated by graded refractive index and scattering models	AUGUSTO GARCIA VALENZUELA Diamant, Ruth Fernandez-Guasti, Manuel	JOURNAL OF THE OPTICAL SOCIETY OF AMERICA A-OPTICS IMAGE SCIENCE AND VISION	2012
76	Spectroscopic refractometer for transparent and absorbing liquids by reflection of white light near the critical angle	CELIA ANGELINA SANCHEZ PEREZ AUGUSTO GARCIA VALENZUELA	REVIEW OF SCIENTIFIC INSTRUMENTS	2012
77	Comprehensive analysis of the diffuse-to-near-normal-viewing reflectance factor of paint films	AUGUSTO GARCIA VALENZUELA Sant'Anna Cuppo, Fabio Luiz Alberto Olivares, Jose et al.	OPTICAL ENGINEERING	2011
78	An assessment of Saunderson corrections to the diffuse reflectance of paint films	AUGUSTO GARCIA VALENZUELA Cuppo F.L.S. Olivares J.A.	4TH EUROPEAN SYMPOSIUM ON FIRE SAFETY SCIENCE	2011
79	Experimental evidence of an effective medium seen by diffuse light in turbid colloids	AUGUSTO GARCIA VALENZUELA Contreras-Tello H.	4TH EUROPEAN SYMPOSIUM ON FIRE SAFETY SCIENCE	2011
80	Sizing colloidal particles from their contribution to the effective refractive index: Experimental results	CELIA ANGELINA SANCHEZ PEREZ AUGUSTO GARCIA VALENZUELA ROBERTO YSACC SATO BERRU et al.	4TH EUROPEAN SYMPOSIUM ON FIRE SAFETY SCIENCE	2011
81	Theoretical model for optical sensing of a random monolayer of particles	AUGUSTO GARCIA VALENZUELA CELIA ANGELINA SANCHEZ PEREZ EDAHI ANTONIO GUTIERREZ REYES et al.	Progress in Electromagneti cs Research Symposium	2011
82	Requirements on a differential refractometer for its use in sizing colloidal particles	AUGUSTO GARCIA VALENZUELA CELIA ANGELINA SANCHEZ PEREZ	Key Engineering Materials	2010
83	Recent advances on the effective optical properties of turbid colloids	RUBEN GERARDO BARRERA Y PEREZ EDAHI ANTONIO GUTIERREZ REYES AUGUSTO GARCIA VALENZUELA	AIP Conference Proceedings	2010

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84	Planar integrated optical sensors based on the mirage effect	CELIA ANGELINA SANCHEZ PEREZ AUGUSTO GARCIA VALENZUELA	MEASUREMENT SCIENCE AND TECHNOLOGY	2010
85	On the definition of the Poynting vector: A non-local derivation	RUBEN GERARDO BARRERA Y PEREZ WOLF LUIS MOCHAN BACKAL AUGUSTO GARCIA VALENZUELA et al.	PHYSICA B-CONDENSED MATTER	2010
86	On the retrieval of particle size from the effective optical properties of colloids	AUGUSTO GARCIA VALENZUELA CELIA ANGELINA SANCHEZ PEREZ RUBEN GERARDO BARRERA Y PEREZ et al.	PHYSICA B-CONDENSED MATTER	2010
87	Isotropic scaling law of the electrical capacitance	AUGUSTO GARCIA VALENZUELA ASUR GUADARRAMA SANTANA	AMERICAN JOURNAL OF PHYSICS	2010
88	Beam refraction and displacement in a differential refractometer with an absorbing sample	AUGUSTO GARCIA VALENZUELA	OPTICS LETTERS	2009
89	Obtaining the dielectric constant of solids from capacitance measurements with a pointer electrode	ASUR GUADARRAMA SANTANA AUGUSTO GARCIA VALENZUELA	REVIEW OF SCIENTIFIC INSTRUMENTS	2009
90	Non-destructive measurement of the dielectric constant of solid samples	ASUR GUADARRAMA SANTANA AUGUSTO GARCIA VALENZUELA	REVISTA MEXICANA DE FISICA	2009
91	On the characterization of a random monolayer of particles from coherent optical reflectance	AUGUSTO GARCIA VALENZUELA Alarcón-Oseguera F. Peña-Gomar M. et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2009
92	Fast measurement of the refractive-index dispersion of dilute liquid solutions of absorbing molecules	CELIA ANGELINA SANCHEZ PEREZ AUGUSTO GARCIA VALENZUELA Hernández-Sánchez E. et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2009
93	Photometric passive range sensor	AUGUSTO GARCIA VALENZUELA Argueta-Díaz V.	AIP Conference Proceedings	2008
94	Spectroscopic refractometer using a double prism scheme for optical characterization of liquid mixtures	CELIA ANGELINA SANCHEZ PEREZ VICTOR HUGO LEYVA GARCIA AUGUSTO GARCIA VALENZUELA et al.	AIP Conference Proceedings	2008
95	On the measurement of the effective refractive index of biological colloids	AUGUSTO GARCIA VALENZUELA CELIA ANGELINA SANCHEZ PEREZ ALEJANDRO REYES CORONADO et al.	Key Engineering Materials	2008

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96	On the measurement of dielectric constant of coatings with capacitance sensors	ASUR GUADARRAMA SANTANA AUGUSTO GARCIA VALENZUELA	Key Engineering Materials	2008
97	3D image profiler based on passive photometric measurements	Victor Argueta Diaz AUGUSTO GARCIA VALENZUELA	J OPT A-PURE APPL OP	2008
98	An optically integrated NH(3) sensor using WO(3) thin films as sensitive material	H. E. Lazcano Hernandez CELIA ANGELINA SANCHEZ PEREZ AUGUSTO GARCIA VALENZUELA	J OPT A-PURE APPL OP	2008
99	Rigorous theoretical framework for particle sizing in turbid colloids using light refraction	AUGUSTO GARCIA VALENZUELA RUBEN GERARDO BARRERA Y PEREZ EDAHI ANTONIO GUTIERREZ REYES	OPTICS EXPRESS	2008
100	Principles and methodology for the simultaneous determination of thickness and dielectric constant of coatings with capacitance measurements	ASUR GUADARRAMA SANTANA AUGUSTO GARCIA VALENZUELA	IEEE TRANSACTIONS ON INSTRUMENTATION AND MEASUREMENT	2007
101	Photometric principle for passive optical range sensors	AUGUSTO GARCIA VALENZUELA CELIA ANGELINA SANCHEZ PEREZ Valenzo-Aoki H. et al.	OPTICAL ENGINEERING	2007
102	Nonlocal nature of the electrodynamic response of colloidal systems	RUBEN GERARDO BARRERA Y PEREZ ALEJANDRO REYES CORONADO AUGUSTO GARCIA VALENZUELA	PHYSICAL REVIEW B	2007
103	Determination of thickness and dielectric constant of coatings from capacitance measurements	ASUR GUADARRAMA SANTANA AUGUSTO GARCIA VALENZUELA	IEEE INSTRUMENTATION & MEASUREMENT MAGAZINE	2007
104	Device for characterization of thermal effusivity of liquids using photothermal beam deflection	GABRIEL EDUARDO SANDOVAL ROMERO AUGUSTO GARCIA VALENZUELA CELIA ANGELINA SANCHEZ PEREZ et al.	REVIEW OF SCIENTIFIC INSTRUMENTS	2007
105	Dispersion and refractive index measurements of diluted solutions with a double prism refractometer	VICTOR HUGO LEYVA GARCIA CELIA ANGELINA SANCHEZ PEREZ AUGUSTO GARCIA VALENZUELA	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2007

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106	Determination of the dielectric constant of coatings with a capacitance probe	ASUR GUADARRAMA SANTANA AUGUSTO GARCIA VALENZUELA	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2007
107	Dynamic angle-scanning reflectometer device	AUGUSTO GARCIA VALENZUELA GABRIEL EDUARDO SANDOVAL ROMERO CELIA ANGELINA SANCHEZ PEREZ et al.	REVIEW OF SCIENTIFIC INSTRUMENTS	2006
108	On the non-local character of the electromagnetic response of colloidal systems	RUBEN GERARDO BARRERA Y PEREZ ALEJANDRO REYES CORONADO AUGUSTO GARCIA VALENZUELA	Optics InfoBase Conference Papers	2006
109	Coherent optical reflectance from a monolayer of large particles adsorbed on a glass surface	AUGUSTO GARCIA VALENZUELA RUBEN GERARDO BARRERA Y PEREZ Peña-Gomar M.C. et al.	APPLIED OPTICS	2006
110	Low scale displacement sensor (multiple unities)	GABRIEL EDUARDO SANDOVAL ROMERO AUGUSTO GARCIA VALENZUELA Ramírez-Ibarra A. et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2006
111	Refractive index dispersion measurement of absorbing layers from transmittance spectra	CELIA ANGELINA SANCHEZ PEREZ AUGUSTO GARCIA VALENZUELA	OPTICAL ENGINEERING	2006
112	Measurement of low optical absorption in highly scattering media using the thermal lens effect	AUGUSTO GARCIA VALENZUELA RUBEN GERARDO BARRERA Y PEREZ Olivares J.A. et al.	J PHYS IV	2005
113	Optical characterization of a turbid colloid by light reflection around the critical angle	AUGUSTO GARCIA VALENZUELA CELIA ANGELINA SANCHEZ PEREZ ALEJANDRO REYES CORONADO et al.	AIP Conference Proceedings	2005
114	Determination of thickness and dielectric constant of coatings from capacitance measurements	ASUR GUADARRAMA SANTANA AUGUSTO GARCIA VALENZUELA	Conference Record - IEEE Instrumentatio n and Measurement Technology Conference	2005
115	Measurement of the effective refractive index of a turbid colloidal suspension using light refraction	ALEJANDRO REYES CORONADO AUGUSTO GARCIA VALENZUELA CELIA ANGELINA SANCHEZ PEREZ et al.	NEW JOURNAL OF PHYSICS	2005

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116	Planar glass integrated optical structure based on prism decoupling for sensing applications	CELIA ANGELINA SANCHEZ PEREZ AUGUSTO GARCIA VALENZUELA ALEJANDRO ESPARZA GARCIA et al.	Progress in Biomedical Optics and Imaging	2005
117	Capacitance measurement of Gaussian random rough surfaces with planar and corrugated electrodes	NEIL CHARLES BRUCE DAVIDSON AUGUSTO GARCIA VALENZUELA	MEASUREMENT SCIENCE AND TECHNOLOGY	2005
118	Coherent reflection of light from a turbid suspension of particles in an internal-reflection configuration: Theory versus experiment	AUGUSTO GARCIA VALENZUELA RUBEN GERARDO BARRERA Y PEREZ CELIA ANGELINA SANCHEZ PEREZ et al.	OPTICS EXPRESS	2005
119	Monitoring particle adsorption and thin film formation by laser reflectometry near the critical angle	AUGUSTO GARCIA VALENZUELA Peña-Gomar M. Pérez E. et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2004
120	Superluminescent fiber laser sources for fiber optic sensors	GABRIEL EDUARDO SANDOVAL ROMERO JUAN ARNALDO HERNANDEZ CORDERO LIBER ANTONIO SOSA MARTINEZ et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2004
121	Heat flux sensor based on photothermal beam deflection for thermal characterization of liquids	GABRIEL EDUARDO SANDOVAL ROMERO AUGUSTO GARCIA VALENZUELA CELIA ANGELINA SANCHEZ PEREZ et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2004
122	NO ₂ -induced optical absorbance changes in semiconductor polyaniline thin films	JOSEFINA ELIZALDE TORRES HAILIN ZHAO HU AUGUSTO GARCIA VALENZUELA	SENSORS AND ACTUATORS B-CHEMICAL	2004
123	Technique for referencing of fiber-optic intensity-modulated sensors by use of counterpropagating signals	CELIA ANGELINA SANCHEZ PEREZ AUGUSTO GARCIA VALENZUELA GABRIEL EDUARDO SANDOVAL ROMERO et al.	OPTICS LETTERS	2004
124	High-resolution optical angle sensors: Approaching the diffraction limit to the sensitivity	AUGUSTO GARCIA VALENZUELA GABRIEL EDUARDO SANDOVAL ROMERO CELIA ANGELINA SANCHEZ PEREZ	APPLIED OPTICS	2004

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125	Monitoring particle adsorption by use of laser reflectometry near the critical angle	AUGUSTO GARCIA VALENZUELA Peña-Gomar M.C. Gonzalez-Gonzalez Ma.L. et al.	APPLIED OPTICS	2004
126	Coherent reflectance in a system of random Mie scatterers and its relation to the effective-medium approach	RUBEN GERARDO BARRERA Y PEREZ AUGUSTO GARCIA VALENZUELA	JOURNAL OF THE OPTICAL SOCIETY OF AMERICA A-OPTICS IMAGE SCIENCE AND VISION	2003
127	Effective electric and magnetic susceptibility of dilute systems of dielectric and metallic Mie particles	AUGUSTO GARCIA VALENZUELA RUBEN GERARDO BARRERA Y PEREZ	PHYSICA B-CONDENSED MATTER	2003
128	Electromagnetic response of a random half-space of Mie scatterers within the effective-field approximation and the determination of the effective optical coefficients	AUGUSTO GARCIA VALENZUELA RUBEN GERARDO BARRERA Y PEREZ	JOURNAL OF QUANTITATIVE SPECTROSCOPY & RADIATIVE TRANSFER	2003
129	Sensitivity analysis of angle-sensitive detectors based on a film resonator	AUGUSTO GARCIA VALENZUELA Peña-Gomar M.C. Villatoro J.	OPTICAL ENGINEERING	2003
130	Design of an optical probe based on angle scanning reflectometry near the critical angle	AUGUSTO GARCIA VALENZUELA MARTHA ROSETE AGUILAR Peña-Gomar M.C.	OPTICAL ENGINEERING	2003
131	Optical reflectance of a composite medium with a sparse concentration of large spherical inclusions	AUGUSTO GARCIA VALENZUELA RUBEN GERARDO BARRERA Y PEREZ	PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS	2003
132	A New Approach for Measuring Surface Parameters by a Capacitive Sensor	ASUR GUADARRAMA SANTANA AUGUSTO GARCIA VALENZUELA NEIL CHARLES BRUCE DAVIDSON et al.	IEEE Sensors	2003
133	Referencing Scheme for Noise Reduction in Fiber Optic Intensity Modulated Sensors	CELIA ANGELINA SANCHEZ PEREZ AUGUSTO GARCIA VALENZUELA JUAN ARNALDO HERNANDEZ CORDERO et al.	IEEE Sensors	2003
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135	Portable refractometer incorporating dynamic reflectometry for monitoring the complex index of refraction in non-transparent liquids	AUGUSTO GARCIA VALENZUELA Peña-Gomar M. Peña-Gomar G.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2002
136	Adsorption kinetics of optochemical NH ₃ gas sensing with semiconductor polyaniline films	HAILIN ZHAO HU JOSE MANUEL SANIGER BLES A AUGUSTO GARCIA VALENZUELA et al.	SENSORS AND ACTUATORS B-CHEMICAL	2002
137	Measuring and sensing a complex refractive index by laser reflection near the critical angle	AUGUSTO GARCIA VALENZUELA Peña-Gomar M.C. Fajardo-Lira C.	OPTICAL ENGINEERING	2002
138	Error analysis on measuring angle-differential profiles of optical reflectivity by dynamic reflectometry	AUGUSTO GARCIA VALENZUELA Peña-Gomar M.	OPTICAL ENGINEERING	2002
139	Polyaniline composite coatings interrogated by a nulling optical-transmittance bridge for sensing low concentrations of ammonia gas	AUGUSTO GARCIA VALENZUELA JOAQUIN PALACIOS ALQUISIRA HAILIN ZHAO HU et al.	SENSORS AND ACTUATORS B-CHEMICAL	2001
140	Perturbation theory for surface-profile imaging with a capacitive probe	AUGUSTO GARCIA VALENZUELA NEIL CHARLES BRUCE DAVIDSON Kouznetsov D.	APPLIED PHYSICS LETTERS	2000
141	The lateral resolution limit for imaging periodic conducting surfaces in capacitive microscopy	NEIL CHARLES BRUCE DAVIDSON AUGUSTO GARCIA VALENZUELA Kouznetsov D.	JOURNAL OF PHYSICS D-APPLIED PHYSICS	2000
142	Optical device for sensing the index of refraction of liquids with high turbidity	MARTHA ROSETE AGUILAR AUGUSTO GARCIA VALENZUELA Peña-Gomar M. et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2000
143	dc and ac optical nulling bridges for sensitive transmittance measurements	MARTIN DANIEL TREJO VALDEZ AUGUSTO GARCIA VALENZUELA Argueta-Díaz V.	REVIEW OF SCIENTIFIC INSTRUMENTS	2000
144	Reflectivity of a Gaussian beam near the critical angle with external optically absorbing media	AUGUSTO GARCIA VALENZUELA Peña-Gomar M.C.	APPLIED OPTICS	2000
145	Sensitivity of optical sensors based on laser-excited surface-plasmon waves	AUGUSTO GARCIA VALENZUELA Villatoro J.	APPLIED OPTICS	1999

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146	Optical sensing of absorbing and inhomogeneous media by AC-reflection near the critical angle	AUGUSTO GARCIA VALENZUELA Pena-Gomar M.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	1999
147	Sensitivity of (bio)chemical sensors based on laser-excited surface plasmon resonance	AUGUSTO GARCIA VALENZUELA Villatoro Joel	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	1999
148	Theory of the backscattering of sound by phase-matched nonlinear interaction	AUGUSTO GARCIA VALENZUELA Kouznetsov D.	JOURNAL OF THE ACOUSTICAL SOCIETY OF AMERICA	1999
149	Rough-surface capacitor: approximations of the capacitance with elementary functions	NEIL CHARLES BRUCE DAVIDSON AUGUSTO GARCIA VALENZUELA Kouznetsov D.	JOURNAL OF PHYSICS D-APPLIED PHYSICS	1999
150	Measuring optical power transmission near the critical angle for sensing beam deflection	AUGUSTO GARCIA VALENZUELA Villatoro J.	APPLIED OPTICS	1998
151	Backscattering of sound by nonlinear interaction in gas media and its possible application to a remote sensing acoustical probe	AUGUSTO GARCIA VALENZUELA Kouznetsov D.	METEOROL Z	1998
152	Noise in optical measurements of cantilever deflections	AUGUSTO GARCIA VALENZUELA Villatoro J.	JOURNAL OF APPLIED PHYSICS	1998
153	An investigation into the applicability of perturbation techniques to solve the boundary integral equations for a parallel-plate capacitor with a rough electrode	AUGUSTO GARCIA VALENZUELA NEIL CHARLES BRUCE DAVIDSON Kouznetsov D.	JOURNAL OF PHYSICS D-APPLIED PHYSICS	1998
154	On the limit to the resolution of photorefectance techniques for sensing analyte concentration at surfaces	AUGUSTO GARCIA VALENZUELA JOSE MANUEL SANIGER BLESÁ	PURE APPL OPT	1998

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155	Guided beam deflection method: A novel alternative for designing integrated optical sensors	AUGUSTO GARCIA VALENZUELA Villatoro Joel Serrano-Heredia Alfonso	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	1998
156	The local spectral expansion method for scattering from one-dimensional dielectric-dielectric rough interfaces	AUGUSTO GARCIA VALENZUELA	JOURNAL OF ELECTROMAGNETIC WAVES AND APPLICATIONS	1997
157	The local spectral expansion method for scattering from perfectly conducting surfaces rough in one dimension	AUGUSTO GARCIA VALENZUELA Collin R.E.	JOURNAL OF ELECTROMAGNETIC WAVES AND APPLICATIONS	1997
158	Limits of different detection schemes used in the optical beam deflection method	AUGUSTO GARCIA VALENZUELA	JOURNAL OF APPLIED PHYSICS	1997
159	Approach to improve the angle sensitivity and resolution of the optical beam deflection method using a passive interferometer and a Ronchi grating	AUGUSTO GARCIA VALENZUELA JOSE RUFINO DIAZ URIBE	OPTICAL ENGINEERING	1997
160	The local spectral expansion method for the scattering of light from two-dimensional perfectly conducting surfaces	AUGUSTO GARCIA VALENZUELA	REVISTA MEXICANA DE FISICA	1997
161	Detection limits of an internal-reflection sensor for the optical beam deflection method	AUGUSTO GARCIA VALENZUELA JOSE RUFINO DIAZ URIBE	APPLIED OPTICS	1997
162	A heuristic model approximation for scattering from perfectly conducting one-dimensional random rough surfaces	AUGUSTO GARCIA VALENZUELA	WAVE RANDOM MEDIA	1996
163	Improvement of the theoretical minimum detectable angle of the optical beam deflection method	AUGUSTO GARCIA VALENZUELA Gardner J. Tabib-Azar Massood	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	1996

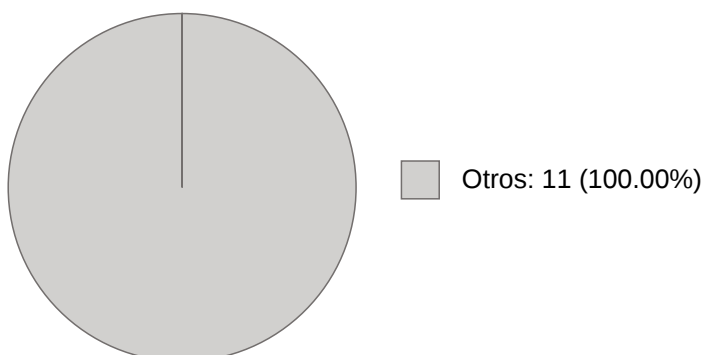
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164	Sensing means and sensor shells: a new method of comparative study of piezoelectric, piezoresistive, electrostatic, magnetic, and optical sensors	AUGUSTO GARCIA VALENZUELA Tabib-Azar M.	SENSORS AND ACTUATORS A-PHYSICAL	1995
165	Smart integrated-optics displacement/force sensor based on speckle pattern detection using neural-net with 0.1-Å resolution	AUGUSTO GARCIA VALENZUELA Rao Umesh K. Tabib-Azar Massood	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	1993
166	Mode conversion and large-angle transmission in symmetric multimode Y-junction couplers	AUGUSTO GARCIA VALENZUELA Eskiyerly M. Tabib-Azar Massood	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	1993
167	Micromachined 50-um x 250-um silicon torsional mirror arrays for optical signal processing	AUGUSTO GARCIA VALENZUELA Hsiang Pin-Ju Neifeld Mark A. et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	1993
168	Fiber optic force and displacement sensor based on speckle detection with 0.1-nanonewton and 0.1-angstrom resolution	AUGUSTO GARCIA VALENZUELA Tabib-Azar Massood	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	1993
169	Fiber-optic force and displacement sensor based on speckle detection with 0.1 nN and 0.1 Å resolution	AUGUSTO GARCIA VALENZUELA Tabib-Azar M.	SENSORS AND ACTUATORS A-PHYSICAL	1993
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171	Interfacial transition in a liquid-liquid interface of the system water + ethanol + benzene + ammonium sulfate	AUGUSTO GARCIA VALENZUELA Estrada-Alexanders A. Guzmán F.	J PHYS CHEM-US	1991

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LIBROS Y CAPITULOS CON ISBN

Obras con registro ISBN



#	Título	Autores	Alcance	Año	ISBN
1	GOLD NANOFILM AS A TEMPERATURE SENSOR USING DIFFUSE REFLECTANCE	VERONICA IRAIS SOLIS TINOCO AUGUSTO GARCIA VALENZUELA Osorio Tascón J.C.	Conferenc e Paper	2023	9781957171241
2	Detecting the presence of nanoparticles in suspension in droplets with a coplanar differential capacitive sensor	ASUR GUADARRAMA SANTANA AUGUSTO GARCIA VALENZUELA Uc-Martin J.	Conferenc e Paper	2020	9781728174747
3	Colloidal optics: From transparency to turbidity	RUBEN GERARDO BARRERA Y PEREZ AUGUSTO GARCIA VALENZUELA Gutiérrez-Reyes E.	Conferenc e Paper	2014	9781557528254
4	Modeling the reflectivity of a sparse monolayer of tenuous particles on a flat substrate at low angles of incidence	OMAR WILFRIDO VAZQUEZ ESTRADA AUGUSTO GARCIA VALENZUELA Contreras-Tello H.	Conferenc e Paper	2014	9781557528254
5	Feasibility of measuring the effective refractive index of blood from backscattered light near the critical angle	OMAR WILFRIDO VAZQUEZ ESTRADA ALEXANDER NAHMAD ROHEN AUGUSTO GARCIA VALENZUELA et al.	Conferenc e Paper	2014	9781557528254

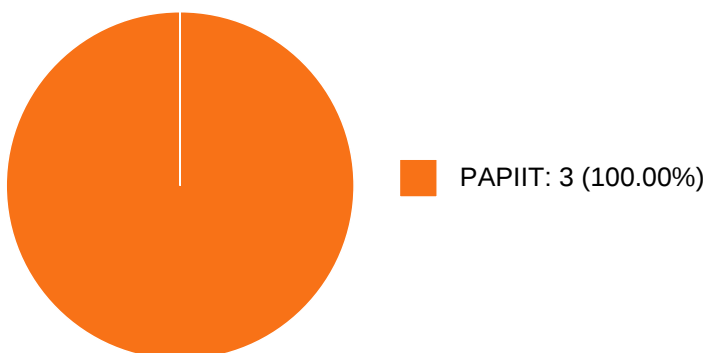
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6	Particle sizing in polymeric nanofluids from effective refractive index measurements	CELIA ANGELINA SANCHEZ PEREZ AUGUSTO GARCIA VALENZUELA Islas R.M.	Conferenc e Paper	2014	9781557528254
7	A Mie type calculation of the nonlocal conductivity tensor of an isolated sphere: And its relation to the transition operator	EDAHÍ ANTONIO GUTIERREZ REYES RUBEN GERARDO BARRERA Y PEREZ AUGUSTO GARCIA VALENZUELA	Conferenc e Paper	2014	9781557528254
8	Range sensing using photometric differentiation	VICTOR ARGUETA DIAZ AUGUSTO GARCIA VALENZUELA	Conferenc e Paper	2008	1557528594
9	Insights into the problem of reflection from colloidal systems: An effective medium approach	RUBEN GERARDO BARRERA Y PEREZ ALEJANDRO REYES CORONADO AUGUSTO GARCIA VALENZUELA et al.	Conferenc e Paper	2007	1424412374
10	Non-local effective medium for the electromagnetic response of colloidal systems: A T-matrix approach	RUBEN GERARDO BARRERA Y PEREZ ALEJANDRO REYES CORONADO AUGUSTO GARCIA VALENZUELA	Conferenc e Paper	2005	1933077077
11	Surface effects on the coherent reflection of light from a polydisperse colloid	AUGUSTO GARCIA VALENZUELA CELIA ANGELINA SANCHEZ PEREZ RUBEN GERARDO BARRERA Y PEREZ et al.	Conferenc e Paper	2005	1933077077

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PARTICIPACIÓN EN PROYECTOS

Histórico de participación en proyectos

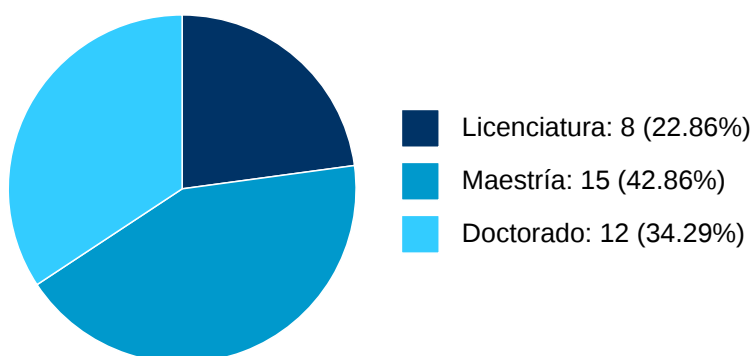


#	Nombre	Participantes	Fuente	Fecha inicio	Fecha fin
1	Sensores de respuesta electromagnética en biopelículas y coloides.	AUGUSTO GARCIA VALENZUELA	Recursos PAPIIT	01-01-2018	31-12-2020
2	Pruebas ópticas para la determinación de propiedades físicas de la sangre y sus componentes	AUGUSTO GARCIA VALENZUELA	Recursos PAPIIT	01-01-2021	31-12-2023
3	Caracterización óptica de micropartículas: aplicación en aerosoles y células biológicas	AUGUSTO GARCIA VALENZUELA	Recursos PAPIIT	01-01-2024	31-12-2026

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PARTICIPACIÓN EN TESIS

Histórico de Colaboraciones en Tesis



#	Título del documento	Tipo de Tesis	Sinodales	Autores	Entidad	Año
1	Método para la determinación del coeficiente de absorción de medios fluorescentes durante el proceso de fotoluminiscencia	Tesis de Doctorado	AUGUSTO GARCIA VALENZUELA,	ENOCH GUTIERREZ HERRERA, Reyes Alberto, Miguel,	Instituto de Ciencias Aplicadas y Tecnología,	2023
2	Sensor de capacitancia variable para medir la tasa de evaporación y tiempo de vida de gotas sésiles	Tesis de Doctorado	ASUR GUADARRAMA SANTANA,	AUGUSTO GARCIA VALENZUELA, MARIA HERLINDA MONTIEL SANCHEZ, et al.	Instituto de Ciencias Aplicadas y Tecnología,	2023
3	El método de espectro angular para el análisis eficiente de la reflexión y transmisión de ultrasonido en el diseño de sensores de gas	Tesis de Doctorado	PEDRO JESUS ACEVEDO CONTLA,	PABLO LUIS RENDON GARRIDO, ROBERTO VELASCO SEGURA, et al.	Instituto de Ciencias Aplicadas y Tecnología, Instituto de Investigaciones en Matemáticas Aplicadas y en Sistemas,	2023

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4	Uso de la técnica de superposición espectral de rejillas bragg en fibra óptica para medir parámetros de movimientos oscilatorios	Tesis de Doctorado	AUGUSTO GARCIA VALENZUELA,	GABRIEL EDUARDO SANDOVAL ROMERO, DANIEL ENRIQUE CEBALLOS HERRERA, et al.	Instituto de Ciencias Aplicadas y Tecnología, Instituto de Ingeniería,	2023
5	Reflectancia interna de luz difusa para el monitoreo de procesos en superficie y películas delgadas	Tesis de Maestría	ALEJANDRO REYES CORONADO,	JESUS GARDUÑO MEJIA, AUGUSTO GARCIA VALENZUELA, et al.	Facultad de Ciencias, Instituto de Ciencias Aplicadas y Tecnología,	2023
6	Relación del patrón angular de esparcimiento de células sanguíneas con su morfología y su utilidad clínica en el diagnóstico médico	Tesis de Maestría	AUGUSTO GARCIA VALENZUELA,	Álvarez Chávez, Nadia Estefanía,	Instituto de Ciencias Aplicadas y Tecnología,	2022
7	Reflectividad óptica interna como sensor de propiedades efectivas de tejido biológico	Tesis de Doctorado	AUGUSTO GARCIA VALENZUELA,	Acevedo Barrera, Anays,	Instituto de Ciencias Aplicadas y Tecnología,	2022
8	Sensor óptico por reflexión interna de luz difusa	Tesis de Maestría	AUGUSTO GARCIA VALENZUELA,	Pineda Vázquez, Diana,	Instituto de Ciencias Aplicadas y Tecnología,	2022
9	Sensor de resistividad efectiva en sangre : fundamentos y aplicaciones	Tesis de Maestría	AUGUSTO GARCIA VALENZUELA,	Valladares Pérez, José Humberto,	Instituto de Ciencias Aplicadas y Tecnología,	2021
10	Detector de longitud de onda y velocidad de ondas superficiales mediante el método de deflectometría óptica	Tesis de Maestría	AUGUSTO GARCIA VALENZUELA,	García Unzueta, Emiliano Ehecattl,	Instituto de Ciencias Aplicadas y Tecnología,	2020

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11	Películas de nanofluidos como sensores optoquímicos	Tesis de Doctorado	AUGUSTO GARCIA VALENZUELA,	Morales Luna, Gesuri,	Centro de Ciencias Aplicadas y Desarrollo Tecnológico,	2018
12	Estudio teórico experimental de la transmitancia óptica de películas delgadas de óxido de zinc impurificado con aluminio	Tesis de Maestría	JUAN CARLOS ALONSO HUITRON,	AUGUSTO GARCIA VALENZUELA, ARTURO RODRIGUEZ GOMEZ, et al.	Centro de Ciencias Aplicadas y Desarrollo Tecnológico, Facultad de Ciencias, Instituto de Física, Instituto de Investigaciones en Materiales,	2018
13	Transporte de energía en metamateriales anisotrópicos	Tesis de Doctorado	RUBEN GERARDO BARRERA Y PEREZ,	AUGUSTO GARCIA VALENZUELA, Prieto López, Carlos,	Centro de Ciencias Aplicadas y Desarrollo Tecnológico, Instituto de Física,	2017
14	Modelado de la respuesta eléctrica de biofluidos	Tesis de Maestría	AUGUSTO GARCIA VALENZUELA,	Acevedo Barrera, Anays,	Centro de Ciencias Aplicadas y Desarrollo Tecnológico,	2017
15	Reflectividad óptica de películas inhomogéneas y su aplicación a sensores	Tesis de Doctorado	AUGUSTO GARCIA VALENZUELA,	Vázquez Estrada, Omar Wilfrido,	Centro de Ciencias Aplicadas y Desarrollo Tecnológico,	2017
16	Refractometría de medios inhomogéneos; fundamentos, instrumentación y aplicaciones	Tesis de Doctorado	AUGUSTO GARCIA VALENZUELA,	Contreras Tello, Humberto,	Centro de Ciencias Aplicadas y Desarrollo Tecnológico,	2015

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17	Reflectividad de coloides turbios : teoría-experimento	Tesis de Maestría	RUBEN GERARDO BARRERA Y PEREZ,	AUGUSTO GARCIA VALENZUELA, Morales Luna, Gesuri,	Centro de Ciencias Aplicadas y Desarrollo Tecnológico, Instituto de Física,	2015
18	Sensores piezoeléctricos de tipo capacitivo para aplicaciones en tecnología de imágenes fotoacústicas	Tesis de Doctorado	FERNANDO ARAMBULA COSIO,	CRESCENCIO GARCIA SEGUNDO, AUGUSTO GARCIA VALENZUELA, et al.	Centro de Ciencias Aplicadas y Desarrollo Tecnológico, Instituto de Investigaciones en Materiales,	2014
19	El índice de refracción efectivo de la sangre como herramienta de diagnóstico médico	Tesis de Licenciatura	AUGUSTO GARCIA VALENZUELA,	Nahmad Rohen, Alexander,	Centro de Ciencias Aplicadas y Desarrollo Tecnológico,	2014
20	Reflexión y transmisión de luz coherente por una monocapa aleatoria de partículas polidispersas soportadas por una superficie plana	Tesis de Maestría	AUGUSTO GARCIA VALENZUELA,	Vázquez Estrada, Omar Wilfrido,	Centro de Ciencias Aplicadas y Desarrollo Tecnológico,	2013
21	Estudio angular del espectro de emisión de un láser aleatorio	Tesis de Licenciatura	CRESCENCIO GARCIA SEGUNDO,	AUGUSTO GARCIA VALENZUELA, JUAN ARNALDO HERNANDEZ CORDERO, et al.	Centro de Ciencias Aplicadas y Desarrollo Tecnológico, Instituto de Ciencias Nucleares, Instituto de Física, Instituto de Investigaciones en Materiales,	2013

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22	Propiedades ópticas de polímeros aplicadas a pinturas decorativas	Tesis de Maestría	RUBEN GERARDO BARRERA Y PEREZ,	AUGUSTO GARCIA VALENZUELA, Keiman, Carolina,	Centro de Ciencias Aplicadas y Desarrollo Tecnológico, Instituto de Física,	2011
23	Refractómetro espectroscópico por reflexión interna	Tesis de Maestría	AUGUSTO GARCIA VALENZUELA,	CELIA ANGELINA SANCHEZ PEREZ, Hernández Sánchez, Elizareth,	Centro de Ciencias Aplicadas y Desarrollo Tecnológico,	2010
24	Caracterización no destructiva de recubrimientos con sensores de capacitancia eléctrica	Tesis de Doctorado	AUGUSTO GARCIA VALENZUELA,	Guadarrama Santana, Asur,	Centro de Ciencias Aplicadas y Desarrollo Tecnológico,	2010
25	Hacia una refractometría en coloides densos	Tesis de Maestría	AUGUSTO GARCIA VALENZUELA,	Contreras Tello, Humberto,	Centro de Ciencias Aplicadas y Desarrollo Tecnológico,	2010
26	Colectores de luz para sistemas de iluminación con fibras ópticas	Tesis de Maestría	AUGUSTO GARCIA VALENZUELA,	Hernández Martínez, Oraél,	Centro de Ciencias Aplicadas y Desarrollo Tecnológico,	2009
27	Respuesta electromagnética efectiva no local de sistemas coloidales turbios : teoría y experimento	Tesis de Doctorado	RUBEN GERARDO BARRERA Y PEREZ,	AUGUSTO GARCIA VALENZUELA, Reyes Coronado, Alejandro,		2007
28	Sistema automatizado para la medición de la dispersión del índice de refracción en líquidos	Tesis de Licenciatura	AUGUSTO GARCIA VALENZUELA,	CELIA ANGELINA SANCHEZ PEREZ, Leyva García, Víctor Hugo,		2006

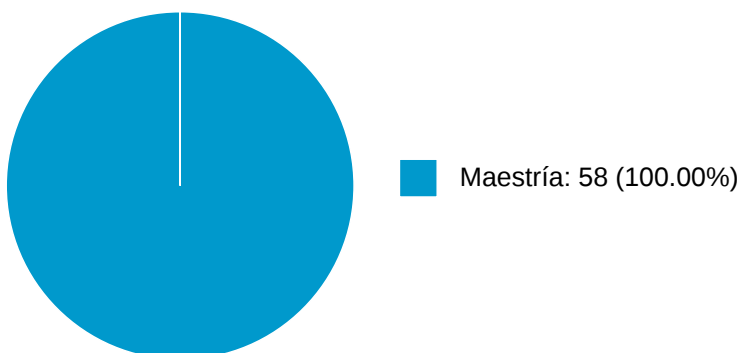
AUGUSTO GARCIA VALENZUELA

29	Desarrollo de un sensor optico pasivo para determinar distancias	Tesis de Licenciatura	AUGUSTO GARCIA VALENZUELA,	Valenzo Aoki, Ireliia Hiromi,	2006
30	Determinacion simultanea de espesor y constante dielectrica de recubrimientos utilizando sensores capacitivos	Tesis de Maestría	AUGUSTO GARCIA VALENZUELA,	Guadarrama Santana, Asur,	2005
31	Monitoreo optico de las características físicas de la sangre	Tesis de Licenciatura	AUGUSTO GARCIA VALENZUELA,	Rivera Clavel, Carlos,	2005
32	Diseño y principios de un sensor optico pasivo de proximidad	Tesis de Licenciatura	AUGUSTO GARCIA VALENZUELA,	Hernandez Martinez, Orael,	2005
33	Sensor de flujo de calor para medir efusividad termica en liquidos	Tesis de Licenciatura	AUGUSTO GARCIA VALENZUELA,	GABRIEL EDUARDO SANDOVAL ROMERO, Hernández Cedillo, Juan, et al.	2004
34	Aplicacion de materiales compositos conductores y semiconductores como sensores de gases mediante un metodo optico diferencial	Tesis de Maestría	AUGUSTO GARCIA VALENZUELA,	JOSE MANUEL SANIGER BLESÁ, Trejo Valdez, Martin Daniel,	2000
35	Desarrollo de un detector óptico para técnicas basadas en reflectometría dinámica	Tesis de Licenciatura	AUGUSTO GARCIA VALENZUELA,	Argueta Díaz, Victor,	1998

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DOCENCIA IMPARTIDA

Histórico de docencia



#	Nivel titulación	Asignatura	Entidad	Alumnos	Semestre
1	Maestría	ACTIVIDADES ACADÉMICAS ORIENTADAS A LA GRADUACIÓN	Facultad de Ingeniería	1	2024-2
2	Maestría	TEMAS SELECTOS DE INSTRUMENTACIÓN TALLER DE ELECTRODINÁMICA	Facultad de Ingeniería	2	2024-2
3	Maestría	TALLER DE INVESTIGACIÓN	Facultad de Ingeniería	1	2024-1
4	Maestría	TEMAS SELECTOS DE INSTRUMENTACIÓN TALLER DE ELECTRODINAMICA II	Facultad de Ingeniería	1	2024-1
5	Maestría	SEMINARIO DE INVESTIGACIÓN II	Instituto de Ciencias Aplicadas y Tecnología	1	2024-1
6	Maestría	TEMAS SELECTOS DE INSTRUMENTACIÓN ELECTRÓNICA PARA SENSORES	Facultad de Ingeniería	4	2024-1
7	Maestría	TEMAS SELECTOS DE INSTRUMENTACIÓN TALLER DE ÓPTICA BIOMÉDICA	Facultad de Ingeniería	4	2023-2
8	Maestría	TEMAS AVANZADOS DE INGENIERÍA ELÉCTRICA TALLER DE ELECTRODINÁMICA	Facultad de Ingeniería	1	2023-2
9	Maestría	SEMINARIO DE INVESTIGACIÓN I	Instituto de Ciencias Aplicadas y Tecnología	1	2023-2
10	Maestría	TEMAS SELECTOS DE INSTRUMENTACIÓN ELECTRÓNICA PARA SENSORES	Facultad de Ingeniería	3	2023-1
11	Maestría	ACTIVIDADES ACADÉMICAS ORIENTADAS A LA GRADUACIÓN	Facultad de Ingeniería	1	2022-2
12	Maestría	TEMAS SELECTOS DE INSTRUMENTACIÓN	Facultad de Ingeniería	1	2022-2
13	Maestría	TALLER DE INVESTIGACIÓN	Facultad de Ingeniería	1	2022-1

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14	Maestría	TEMAS SELECTOS DE INSTRUMENTACIÓN TALLER DE OPTICA BIOMEDICA	Facultad de Ingeniería	4	2021-2
15	Maestría	ACTIVIDADES ACADÉMICAS ORIENTADAS A LA GRADUACIÓN	Facultad de Ingeniería	1	2021-2
16	Maestría	TALLER DE INVESTIGACIÓN	Facultad de Ingeniería	1	2021-1
17	Maestría	TEMAS SELECTOS DE INSTRUMENTACIÓN ELECTRODINÁMICA Y ESTADO SÓLIDO	Facultad de Ingeniería	5	2021-1
18	Maestría	ACTIVIDADES ACADÉMICAS ORIENTADAS A LA GRADUACIÓN	Facultad de Ingeniería	1	2020-2
19	Maestría	TALLER DE INVESTIGACIÓN	Facultad de Ingeniería	1	2020-1
20	Maestría	TEMAS SELECTOS DE INSTRUMENTACIÓN ELECTRODINÁMICA Y ESTADO SÓLIDO	Facultad de Ingeniería	4	2020-1
21	Maestría	ACTIVIDADES ACADÉMICAS ORIENTADAS A LA GRADUACIÓN	Facultad de Ingeniería	1	2019-2
22	Maestría	TEMAS SELECTOS DE INSTRUMENTACIÓN TALLER DE ELECTRODINAMICA PARA SENSORES	Facultad de Ingeniería	5	2019-2
23	Maestría	TALLER DE INVESTIGACIÓN	Facultad de Ingeniería	1	2019-1
24	Maestría	TEMAS SELECTOS DE INSTRUMENTACIÓN ELECTRODINAMICA Y ESTADO SOLIDO	Facultad de Ingeniería	3	2019-1
25	Maestría	TEMAS SELECTOS DE INSTRUMENTACIÓN,TALLER DE ELECTRODINAMICA PARA SENSORES	Facultad de Ingeniería	3	2018-2
26	Maestría	TEMAS SELECTOS DE INSTRUMENTACION,ELECTRODINAMICA Y ESTADO SOLIDO	Facultad de Ingeniería	5	2018-1
27	Maestría	ACTIVIDADES ACADÉMICAS ORIENTADAS A LA GRADUACIÓN	Facultad de Ingeniería	1	2017-2
28	Maestría	TEMAS SELECTOS DE INSTRUMENTACION-394982	Facultad de Ingeniería	4	2017-1
29	Maestría	TEMAS SELECTOS DE INSTRUMENTACION	Facultad de Ingeniería	7	2016-2
30	Maestría	TEMAS SELECTOS DE INSTRUMENTACION	Facultad de Ingeniería	5	2016-1
31	Maestría	TEMAS SELECTOS DE INSTRUMENTACION	Facultad de Ingeniería	2	2015-2
32	Maestría	ACTIVIDADES ACADEMICAS ORIENTADAS A LA GRADUACION	Facultad de Ingeniería	1	2015-2
33	Maestría	TEMAS SELECTOS DE INSTRUMENTACION	Facultad de Ingeniería	2	2015-1
34	Maestría	TRABAJO DE INVESTIGACION I	Facultad de Ingeniería	3	2015-1
35	Maestría	TALLER DE INVESTIGACION	Facultad de Ingeniería	2	2015-1
36	Maestría	TEMAS SELECTOS DE INSTRUMENTACION	Facultad de Ingeniería	1	2014-2
37	Maestría	TEMAS SELECTOS DE INSTRUMENTACION	Facultad de Ingeniería	12	2014-1
38	Maestría	TRABAJO DE INVESTIGACION I	Facultad de Ingeniería	3	2014-1
39	Maestría	TEMAS SELECTOS DE INSTRUMENTACION	Facultad de Ingeniería	2	2013-2

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40	Maestría	ACTIVIDADES ACADEMICAS ORIENTADAS A LA GRADUACION	Facultad de Ingeniería	1	2013-2
41	Maestría	TEMAS SELECTOS DE INSTRUMENTACION	Facultad de Ingeniería	16	2013-1
42	Maestría	TALLER DE INVESTIGACION	Facultad de Ingeniería	1	2013-1
43	Maestría	TEMAS SELECTOS DE INSTRUMENTACION	Facultad de Ingeniería	6	2012-2
44	Maestría	TEMAS SELECTOS DE INSTRUMENTACION	Facultad de Ingeniería	17	2011-1
45	Maestría	SEMINARIO DE INSTRUMENTACION II	Facultad de Ingeniería	1	2010-2
46	Maestría	SEMINARIO DE INSTRUMENTACION I	Facultad de Ingeniería	12	2010-1
47	Maestría	TRABAJO DE INVESTIGACION I	Facultad de Ingeniería	1	2010-1
48	Maestría	TRABAJO DE INVESTIGACION II	Facultad de Ingeniería	1	2010-1
49	Maestría	TEMAS SELECTOS DE INSTRUMENTACION	Facultad de Ingeniería	22	2010-1
50	Maestría	TEMAS SELECTOS DE INSTRUMENTACION	Facultad de Ingeniería	3	2009-2
51	Maestría	SEMINARIO DE INSTRUMENTACION II	Facultad de Ingeniería	1	2009-2
52	Maestría	TRABAJO DE INVESTIGACION II	Facultad de Ingeniería	1	2009-1
53	Maestría	MATEMATICAS APLICADAS	Facultad de Ingeniería	10	2009-1
54	Maestría	TRABAJO DE INVESTIGACION I	Facultad de Ingeniería	1	2009-1
55	Maestría	SEMINARIO DE INSTRUMENTACION II	Facultad de Ingeniería	2	2008-2
56	Maestría	TRABAJO DE INVESTIGACION I	Facultad de Ingeniería	1	2008-1
57	Maestría	TRABAJO DE INVESTIGACION II	Facultad de Ingeniería	1	2008-1
58	Maestría	MATEMATICAS APLICADAS	Facultad de Ingeniería	11	2008-1



Sistema Integral de Información Académica
Coordinación de Planeación, Evaluación y
Simplificación de la Gestión Institucional
Reporte individual



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PATENTES

#	Título	Inventores	Sección	Año
1	DISPOSITIVO PARA EL SENSADO CAPACITIVO TEMPORAL.	ASUR GUADARRAMA SANTANA, CRESCENCIO GARCIA SEGUNDO, AUGUSTO GARCIA VALENZUELA,	PHYSICS	2014

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FUENTES DE INFORMACIÓN

Internos

#	Información	Fuente	Sistema	Periodo
1	Grupos ordinarios y resumen de historias académicas	DGAE	SIAE	2008-2025
2	Nombramientos, datos generales, estímulos, premios y reconocimientos	DGAPA	RUPA	2008-2025
3	Producción Académica	CH	Humanindex	2008-2021
4	Producción Académica	CIC	SCIC	2000-2017
5	Proyectos	DGPO	SISEPRO	2018-2022
6	Tesis	DGB	TESIUNAM	2008-2025
7	Tutorías en Posgrado	CGEP	SIIPosgrado	2008-2021

Externos

#	Información	Fuente	Sistema	Periodo
8	Documentos Indexados	Elsevier	Scopus	2008-2025
9	Documentos Indexados	Thomson Reuters	WoS	2008-2025
10	Obras con registro ISBN	INDAUTOR	Agencia ISBN	2008-2025
11	Patentes	IMPI	SIGA	2008-2024