



Universidad Politécnica de Tulancingo
DOCTORADO EN OPTOMEATRÓNICA

PUBLICACIONES EN REVISTA ORDENADAS POR JCR



| Artículo | Nombre de revista | JCR | Año |
|--|---|-------|------|
| M.A. Márquez-Vera, L.E. Ramos-Velasco, O. López-Ortega, N.S. Zúñiga-Peña, J. C. Ramos-Fernández, R.M. Ortega-Mendoza, 2021, "Inverse fuzzy fault model for fault detection and isolation with least angle regression for variable selection", Computers & Industrial Engineering, 159(107499). https://doi.org/10.1016/j.cie.2021.107499 | Computers & Industrial Engineering | 5.431 | 2021 |
| Mario Arreola-Esquivel, Carina Toxqui-Quitl, Maricela Delgadillo-Herrera, Alfonso Padilla-Vivanco, Gabriel Ortega-Mendoza and Anna Carbone, 2021, "Non-Binary Snow Index for Multi-Component Surfaces", Remote Sensing, 13(2777). https://doi.org/10.3390/rs13142777 | Remote Sensing | 4.848 | 2021 |
| A. Cárdenas, J. Delgado, M. Cunill, and E. González, 2021, "In-vivo measurement of the fluorescence spectrum of wild cochineal (Dactylopius opuntiae)," Scientific Reports, 11(446). https://doi.org/10.1038/s41598-020-80108-4 | Scientific Reports | 4.379 | 2021 |
| Horlando Vargas-Vargas, César Camacho-Bello, José S. Rivera-López, Alicia Noriega-Escamilla, "Some aspects of fractional-order circular moments for image analysis", Pattern Recognition Letters, 2021. https://doi.org/10.1016/j.patrec.2021.06.006 | Pattern Recognition Letters | 3.756 | 2021 |
| Ortega-Mendoza, J.G.; Zaca-Morán, P.; Padilla-Martínez, J.P.; Muñoz-Pérez, J.E.; Cruz, J.L.; Andrés, M.V. 2021, "Monitoring the Growth of a Microbubble Generated Photothermally onto an Optical Fiber by Means Fabry-Perot Interferometry". Sensors, 21 (28). https://doi.org/10.3390/s21020628 | Sensors | 3.576 | 2021 |
| F. M. Muñoz-Pérez, J.G. Ortega-Mendoza, A. Padilla-Vivanco, C. Toxqui-Quitl, J.A. Sarabia-Alonso, and R. Ramos-García, 2020, "Steady-state 3D trapping and manipulation of microbubbles using thermocapillary," Frontiers in physics 8, 585590, 1-8. https://doi.org/10.3389/fphy.2020.585590 | Frontiers in physics | 3.56 | 2021 |
| J.E. Muñoz-Pérez, J.L. Cruz, M.V. Andrés, J.G. Ortega-Mendoza, "Conic optical fiber probe for generation and characterization of microbubbles in liquids", Sensors and Actuators A- Physical, Volume 317, 2021, 112441. https://doi.org/10.1016/j.sna.2020.112441 | Sensors and Actuators A- Physical | 3.407 | 2021 |
| Francisco Germán Mejía-Hernández, Oscar Javier Hernández-Ortiz, Francisco Misael Muñoz-Pérez, Armando Irving Martínez-Pérez, Rosa Angeles Vázquez-García, E. E. Vera-Cárdenas, José Gabriel Ortega-Mendoza, María Aurora Veloz-Rodríguez, Esteban Rueda-Soriano, and Karina Alemán-Ayala. 2021, "Mechanochemical synthesis, linear and nonlinear optical properties of a new oligophenyleneimine with indole terminal moiety for optoelectronic application", Journal of Materials Science: Materials in Electronics, 32, 6283–6295. | Journal of Materials Science: Materials in Electronics | 2.478 | 2021 |
| J. Saúl Rivera-Lopez, César Camacho-Bello, Horlando Vargas-Vargas, Alicia Escamilla-Noriega, 2021, "Fast computation of 3D Tchebichef moments for higher orders", Journal of Real-Time Image Processing. https://doi.org/10.1007/s11554-021-01152-5 | Journal of Real-Time Image Processing | 2.358 | 2021 |
| Márquez-Vera, M.A., López-Ortega, O., Ramos-Velasco, L.E., Ortega-Mendoza, R.M., Fernández-Neri, B.J., Zúñiga-Peña, N.S., 2021, "Fault diagnosis in industrial process by using LSTM and an elastic net", Revista Iberoamericana de Automática e Informática Industrial 18, 164-175. https://doi.org/10.4995/riai.2020.13611 | Revista Iberoamericana de Automática e Informática Industrial | 1.202 | 2021 |
| Rueda-Germán C., Rivas-Camero I. J., Gabbar H. A, and Arroyo-Núñez J. H. (2021). PLL wrap function for synchronization in phase jump disturbances. Ingeniería e Investigación, 41(1). 10.15446/ing.investig.v41n1.84955 | Ingeniería e Investigación | 0.764 | 2021 |
| J.M. Cuvas-Limón, J.G. Ortega-Mendoza, J.P. Padilla-Martínez, and P. Zaca-Morán. 2021, "Measurement of two-photon absorption by gold nanoparticles of different sizes photodeposited onto the core of an optical fibre", Lithuanian Journal of Physics, 61(1), pp. 35–41. | Lithuanian Journal of Physics | 0.633 | 2021 |
| Ferran Mocholí Belenguier, Antonio Martínez-Millana, Antonio Mocholí Salcedo, José Humberto Arroyo Núñez, "Vehicle Identification by Means of Radio-Frequency-Identification Cards and Magnetic Loops", IEEE Transactions on Intelligent Transportation Systems, Volume 21, Issue 12, 2020. https://doi.org/10.1109/TITS.2019.2948221 | IEEE Transactions on Intelligent Transportation Systems | 6.492 | 2020 |
| E. González-Amador, A. Padilla-Vivanco, C. Toxqui-Quitl, J. Arines, and E. Acosta, 2020, "Jacobi-Fourier phase mask for wavefront coding," Optics and Lasers in Engineering, 126. https://www.sciencedirect.com/science/article/pii/S0143816618316956 | Optics and Lasers in Engineering | 4.059 | 2020 |



Universidad Politécnica de Tulancingo
DOCTORADO EN OPTOMEATRÓNICA

PUBLICACIONES EN REVISTA ORDENADAS POR JCR



| | | | |
|--|---|-------|------|
| J. A. Sarabia-Alonso, J. G. Ortega-Mendoza, J. C. Ramírez-San Juan, P. Zaca-Morán, J. Ramírez-Ramírez, A. Padilla-Vivanco, F. M. Muñoz-Pérez, R. Ramos-García, "Optothermal generation, trapping, and manipulation of microbubbles", Optics Express, Vol. 28, pp. 17672-17682. https://www.osapublishing.org/oe/abstract.cfm?uri=oe-28-12-17672 | Optics Express | 3.561 | 2020 |
| J.M Escorcia-Hernández, A. Chemori, H. Aguilar-Sierra, and J.A. Monroy-Anieva, "A New Solution for Machining with RA-PKMs: Modelling, Control and Experiments", Mechanism and Machine Theory, volume 150, 2020, 103864. https://www.sciencedirect.com/science/article/pii/S0094114X20300859 | Mechanism and Machine Theory | 3.535 | 2020 |
| Juan Aguilera, Delia Irazú Hernández Farías, Rosa María Ortega Mendoza y Manuel Montes-y-Gómez. 2020, "Depression and anorexia detection in social media as a one-class classification problem", Applied Intelligence. https://doi.org/10.1007/s10489-020-02131-2 | Applied Intelligence | 3.325 | 2020 |
| J.M. Islas Islas, Victor H. Flores-Muñoz, D.-I. Serrano-García, J.G. Ortega-Mendoza, M. Durán-Sánchez, A. Guzmán-Barraza, Noel-Ivan Toto-Arellano, 2020, "Development of a dynamic interferometer using recycled components based on polarization phase shifting techniques," Optics and Laser Technology, 123, 105915 (12 pp). https://www.sciencedirect.com/science/article/pii/S0030399219309405?dgcid=author | Optics & Laser Technology | 3.319 | 2020 |
| Jonatan Martín Escorcia-Hernández, Hipólito Aguilar-Sierra, Omar Aguilar-Mejía, Ahmed Chemori & José Humberto Arroyo-Núñez, "A New Adaptive RISE Feedforward Approach based on Associative Memory Neural Networks for the Control of PKMs", Journal of intelligent & Robotic Systems, 2020. https://link.springer.com/article/10.1007/s10846-020-01242-9 | Journal of intelligent & Robotic Systems | 2.259 | 2020 |
| O. J. Hernández-Ortiz, J. E. Cerón-Castelán, F. M. Muñoz-Pérez, V. Salazar-Pereda, J. G. Ortega- M. A. Mendoza, Veloz-Rodríguez, and R. A. Vázquez-García, 2020, "Synthesis, optical, electrochemical, and magnetic properties of new ferrocenyl chalcone semiconductors for optoelectronic applications," Journal of Materials Science: Materials in Electronics, pp. 1-12. https://link.springer.com/article/10.1007/s10854-020-02882-1 | Journal of Materials Science: Materials in Electronics | 2.195 | 2020 |
| E. González, A. Padilla-Vivanco, J. Arines, M. Olvera-Angeles, and E. Acosta, 2020, "Choice of Jacobi-Fourier phase masks for wavefront coding under different f-number," Japanese Journal of Applied Physics. Accepted Manuscript. https://iopscience.iop.org/article/10.35848/1347-4065/ab9652 | Japanese Journal of Applied Physics | 1.471 | 2020 |
| A. Manilla-García, I. Rivas-Camero, N.F. Guerrero-Rodríguez, "Propuesta de Modelo de Variación de Consumo de Corriente de un MSIP por Efecto de Desbalance por Presencia de Grietas Superficiales en el Rotor", Revista Iberoamericana de Automática e Informática Industrial. 2020. 00, 1-5. ACEPTADO PARA PUBLICACIÓN. https://polipapers.upv.es/index.php/RIAI/article/view/12200/12660 | Revista Iberoamericana de Automática e Informática Industrial | 1.313 | 2020 |
| Edgar Leon-Olivares, Hertwin Minor-Popocatl, Omar Aguilar-Mejía, and Diana Sánchez Partida, 2020, "Optimization of the supply chain in the production of ethanol from agricultural biomass using mixed-integer linear programming (MILP): a case study," Mathematical Problems in Engineering, 2020, 1-25. https://www.hindawi.com/journals/mpe/2020/6029507/ | Mathematical Problems in Engineering | 1.179 | 2020 |
| B. Villeda, J. Arroyo, R. Nuñez, "Displacement Aid System for People with Visual Impairment Using Magnetic Coils", IEEE Latin America Transactions, Vol. 18, No. 2, 2020. https://www.inaoep.mx/~IEEElat/index.php/transactions/article/view/2963/411 | IEEE Latin America Transactions | 0.804 | 2020 |
| F. Daniel Santillán-Lemus, Hertwin Minor-Popocatl, Omar Aguilar-Mejía, Ruben Tapia-Olvera, "Optimal Economic Dispatch in Microgrids with Renewable Energy Sources", Energies, 2019, 12(1), 181; https://doi.org/10.3390/en12010181 | Energies | 2.707 | 2019 |
| Rosales-Díaz, I., López-Gutiérrez, J. R., Suárez, A. E. Z., Salazar, S. R., Osorio-Cordero, A., Aguilar-Sierra, H., & Lozano, R. (2019). Comparison of Control Techniques in a Weight Lifting Exoskeleton. Journal of Bionic Engineering, 16(4), 663-673. https://link.springer.com/article/10.1007/s42235-019-0053-0 | Journal of Bionic Engineering | 2.463 | 2019 |



Universidad Politécnica de Tulancingo
DOCTORADO EN OPTOMEATRÓNICA

PUBLICACIONES EN REVISTA ORDENADAS POR JCR



| | | | |
|---|---|-------|------|
| J G Ortega-Mendoza, P Soto-López, P Zaca-Morán, A Padilla-Vivanco, J P Padilla-Martinez, N I Toto-Arellano and A Guzmán-Barraza, 2019, "Generating micropatterns onto the core of an optical fiber end with nanoparticles using fiber modes," Laser Phys. Lett., 16, 045105 (5pp). https://iopscience.iop.org/article/10.1088/1612-202X/ab0c88/meta | Laser Physics Letters | 2.328 | 2019 |
| A. Manilla García, I. Rivas Cambero, J. A. Monroy Anieva. 2019. Modeling and Analysis of speed tuning of a PMSM with presence of crack using genetic algorithms. Revista Iberoamericana de Automática e Informática Industrial 16, 190-199. https://doi.org/10.4995/riai.2018.9767 https://polipapers.upv.es/index.php/RIAI/article/view/9767/11147 | Revista Iberoamericana de Automática e Informática Industrial | 1.313 | 2019 |
| Raúl Castro-Ortega, Carina Toxqui-Quitl, Alfonso Padilla-Vivanco, Jose Francisco Solís-Villarreal, Eber Enrique Orozco-Guillén, 2019, "Zernike moment invariants for hand vein pattern description from raw biometric data," J. Electron. Imaging, 28(5), 53019. https://www.spiedigitallibrary.org/journals/Journal-of-electronic-imaging/volume-28/issue-5/053019/Zernike-moment-invariants-for-hand-vein-pattern-description-from-raw/10.1117/1.JEI.28.5.053019.full?SSO=1 | J. Electron. Imaging | 0.924 | 2019 |
| A Montes Pérez, G Rodríguez-Zurita, VH Flores-Muñoz, G Parra-Escamilla, DI Serrano-García, A Martínez-García, JM Islas-Islas, JG Ortega-Mendoza, L García Lechuga, Noel-Ivan Toto-Arellano, 2019, "Dynamic Mach-Zehnder interferometer based on a Michelson configuration and a cube beam splitter system," Optical Review, 26(2), 231-240. https://iopscience.iop.org/article/10.1088/1612-202X/ab0c88/meta | Optical Review | 0.868 | 2019 |
| Ruben Ramos Garcia, Jose Gabriel Ortega Mendoza, Julián Ramirez Ramirez, Julio Aurelio Sarabia Alonso, Carina Toxqui Quitl, Plácido Zaca Moran, Alfonso Padilla Vivanco, Iván Rivas Cambero, S. Torres Hurtado, 2018, "Marangoni force-driven manipulation of photothermally-induced microbubbles," Optics express, 26(6), 6653-6662. https://www.osapublishing.org/oe/abstract.cfm?uri=oe-26-6-6653 | Optics express | 3.561 | 2018 |
| Camacho-Bello, C., & Rivera-Lopez, J. S. (2018). Some computational aspects of Tchebichef moments for higher orders. Pattern Recognition Letters, 112, 332-339. https://www.sciencedirect.com/science/article/pii/S0167865518304422 | Pattern Recognition Letters | 2.81 | 2018 |
| Camacho-Bello, C. (2018). Exact Legendre-Fourier moments in improved polar pixels configuration for image analysis. IET Image Processing, 13(1), 118-124. https://digital-library.theiet.org/content/journals/10.1049/iet-ipr.2018.5489 | IET Image Processing | 2.004 | 2018 |
| Mocholí Belenguer, F., Mocholí Salcedo, A., Milián Sánchez, V. y Arroyo Núñez, JH (2018). Doble lazo magnético y métodos para calcular su inductancia. Journal of Advanced Transportation, 2018. https://www.hindawi.com/journals/jat/2018/6517137 | Journal of Advanced Transportation | 1.983 | 2018 |
| Gabriel Ortega-Mendoza, Oscar Goiz, Alfonso Padilla-Vivanco, Carina Toxqui-Quitl, Plácido Zaca-Morán, Fernando Chávez, 2018, "Photofusion and disaggregation of silver nanoparticles suspended in ethanol by laser irradiation," Current nanoscience, 14(1), 50-53. http://www.eurekaselect.com/node/156056/article/photofusion-and-disaggregation-of-silver-nanoparticles-suspended-in-ethanol-by-laser-irradiation | Current Nanoscience | 1.586 | 2018 |
| M. Olvera-Angeles, A. Padilla-Vivanco, J. Sasian, J. Schwiegerling, J. Arines, & E. Acosta, 2018, "Effect of Spherical aberration in trefoil phase plates on color wavefront coding," Japanese Journal of Applied Physics, Regular Papers, 57 (8S2). https://iopscience.iop.org/article/10.7567/JJAP.57.08PF05/meta | Japanese Journal of Applied Physics | 1.471 | 2018 |
| P Zaca-Morán, JP Padilla-Martínez, JM Pérez-Corte, JA Dávila-Pintle, JG Ortega-Mendoza, N Morales, 2018, "Etched optical fiber for measuring concentration and refractive index of sucrose solutions by evanescent waves," Laser Physics, 28(11), 116002. https://iopscience.iop.org/article/10.1088/1555-6611/aad846/meta | Laser Physics | 1.231 | 2018 |
| R. Hurtado-Pérez, C. Toxqui-Quitl, A. Padilla-Vivanco, and G. Ortega-Mendoza, 2018, "Focus measure method based on the modulus of the gradient of the color planes for digital microscopy," Optical Engineering, 57(2), 0231061-02310611. https://www.spiedigitallibrary.org/journals/optical-engineering/volume-57/issue-02/023106/Focus-measure-method-based-on-the-modulus-of-the-gradient/10.1117/1.OE.57.2.023106.full | Optical Engineering | 1.209 | 2018 |



Universidad Politécnica de Tulancingo
DOCTORADO EN OPTOMEATRÓNICA

PUBLICACIONES EN REVISTA ORDENADAS POR JCR



| | | | |
|--|--|-------|------|
| J.G. Ortega-Mendoza, E. Kuzin, P. Zaca-Morán, F. Chávez, L.C. Gómez-Pavón, A. Padilla-Vivanco, C. Toxqui-Quitl, and A. Luis-Ramos, 2017, "Photodeposition of SWCNTs onto the optical fiber end to assemble a Qswitched $[Er]^{3+}$ doped fiber laser," Optics & Laser Technology 91, 32–35. http://dx.doi.org/10.1016/j.optlastec.2016.12.007 | Optics & Laser Technology | 3.319 | 2017 |
| H. Yañez-Badillo, R. Tapia-Olvera, O Aguilar-Mejía, F. Beltran-Carbajal, Control Neuronal en Línea para Regulación y Seguimiento de Trayectorias de Posición para un Quadrotor, Revista Iberoamericana de Automática e Informática Industrial RIAI, Volume 14, Issue 2, April–June 2017, Pages 141-151 https://www.sciencedirect.com/science/article/pii/S1697791217300031 | Revista Iberoamericana de Automática e Informática Industrial RIAI | 1.313 | 2017 |
| P Zaca-Morán, JG Ortega-Mendoza, GJ Lozano-Perera, LC Gómez-Pavón, GF Pérez-Sánchez, JP Padilla-Martínez, C Felipe, 2017, "Passively Q-switched erbium-doped fiber laser based on Zn nanoparticles as a saturable absorber" Laser Physics 27(10), 105101. https://iopscience.iop.org/article/10.1088/1555-6611/aa83e0/meta | Laser Physics | 1.231 | 2017 |
| Mocholí-Salcedo, A., Arroyo-Núñez, JH, Milián-Sánchez, VM, Verdú-Martín, GJ y Arroyo-Núñez, A. (2016). Control de tráfico de bucles magnéticos con variación de características eléctricas debido al paso de vehículos sobre ellos. Transacciones IEEE sobre sistemas de transporte inteligentes, 18 (6), 1540-1548. https://ieeexplore.ieee.org/abstract/document/7636945 | IEEE Transactions on Intelligent Transportation Systems | 5.744 | 2016 |
| Mocholí-Salcedo, A., Arroyo-Núñez, J. H., Milián-Sánchez, V. M., Palomo-Anaya, M. J., & Arroyo-Núñez, A. (2016). Magnetic field generated by the loops used in traffic control systems. IEEE Transactions on Intelligent Transportation Systems, 18(8), 2126-2136. https://ieeexplore.ieee.org/abstract/document/7797121 | IEEE Transactions on Intelligent Transportation Systems | 5.744 | 2016 |
| A comparative note on the relaxation algorithms for the linear semi-infinite feasibility problema, A Ferrer, MA Goberna, E González-Gutiérrez, MI Todorov, Annals of Operations Research 258 (2), 587-611 https://link.springer.com/article/10.1007/s10479-016-2135-2 | Annals of Operations Research | 2.284 | 2016 |
| P Zaca-Morán, R Ramos-García, JG Ortega-Mendoza, F Chávez, GF Pérez-Sánchez, C Felipe, 2015, "Saturable and two-photon absorption in zinc nanoparticles photodeposited onto the core of an optical fiber" Optics express, 23(14), 18721-18729. https://www.osapublishing.org/oe/abstract.cfm?uri=oe-23-14-18721 | Optics express | 3.561 | 2015 |
| Omar Aguilar-Mejía, Rubén Tapia-Olvera, Antonio Valderrabano-González & Iván Rivas Cambero (2015): "Adaptive neural network control of chaos in permanent magnet synchronous motor", Intelligent Automation & Soft Computing, DOI:10.1080/10798587.2015.1103971, ISSN 2326-005X. https://www.tandfonline.com/doi/full/10.1080/10798587.2015.1103971?scroll=top&needAccess=true | Intelligent Automation & Soft Computing | 0.79 | 2015 |
| J. Gabriel Ortega-Mendoza, Alfonso Padilla-Vivanco, Carina Toxqui-Quitl, Placido Zaca-Morán, David Villegas-Hernández and Fernando Chávez, 2014, "Optical Fiber Sensor Based on Localized Surface Plasmon Resonance Using Silver Nanoparticles Photodeposited on the Optical Fiber End" Sensors, 14(10), 18701-18710. ISSN: 1424-8220. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4239935/ | Sensors | 3.576 | 2014 |
| C. Camacho Bello, C. Toxqui Quitl, A. Padilla-Vivanco and J. Báez Rojas, 2014, "High precision and fast computation of Jacobi-Fourier moments for image description," JOSAA, vol 31, Iss 1, pp. 124-134. ISSN: 1084-7529. https://www.osapublishing.org/josaa/abstract.cfm?uri=josaa-31-1-124 | Journal of the Optical Society of America A | 1.861 | 2014 |