

INSTITUTO NACIONAL DE ASTROFÍSICA, ÓPTICA Y ELECTRÓNICA

PUBLICACIONES ARBITRADAS

ENERO-JUNIO 2020

Nº	Título de Artículo	Año	Autores	Revista	DOI	Tipo de publicación	Lugar de publicación
1	A Nonrotating Gas Component in an Extreme Starburst at $z = 4.3$	2020	Ken-ichi Takaki, Daisuke Iono, Min S Yun, Itz'ar Arelxaga, Bunyo HatsuKade, Minju M Lee, Tomonari Michiyama, Kouichiro Nakaniishi, Toshiki Saito, Junko Ueda, Hideki Umehata	The Astrophysical Journal	https://doi.org/10.3847/1538-4357/ab64f4	Internacional	Estados Unidos
2	Constraining the local burst rate density of primordial black holes with HAWC	2020	A. Albert, R. Alfaro, C. Alvarez, J.C. Artega-Velázquez, K.P. Arunbabu, D. Avila Rojas, H.A. Ayala Salares, V. Baghmanyar, E. Belmont-Moreno, S.Y. BenZvi, C. Brisbois, K.S. Caballero-Mora, T. Capistrán, A. Carramiñana, S. Casanova, U. Cotti, J. Colzani, E. De la Fuente, C. de León, B.L. Dingus, M.A. DuVernois, J.C. Díaz-Vélez, R.W. Ellsworth, K.L. Engel, C. Espinoza, H. Fleischhack, N. Fraija, A. Galván-Gómez, J.A. García-González, F. Garfias, M.M. González, J.A. Goodman, J.P. Harding, S. Hernandez, B. Hona, D. Huang, F. Hueyalt-Zahuanitla, P. Hüntemeyer, A. Iritarte, V. Joshi, A. Lara, W.H. Lee, H. León Vargas, J.T. Linemann, A.L. Longinotti, G. Luis-Raya, J. Lundeen, R. López-Coto, K. Malone, S.S. Marinelli, O. Martínez, I. Martínez-Castellanos, J. Martínez-Castro, H. Martínez-Huerta, J.A. Matthews, P. Miranda-Romagnoli, J.A. Morales-Soto, E. Moreno, M. Mostafá, A. Nayerhoda, L. Nellen, M. Newbold, M.U. Nisa, R. Noriega-Papaqui, A. Peisker, E.G. Pérez-Pérez, C.D. Rho, C. Rivière, D. Rosa-González, M. Rosenberg, H. Salazar, F. Salasa Greus, A. Sandoval, M. Schneider, G. Siniis, A.J. Smith, R.W. Springer, E. Tabacknick, M. Tanner, O. Tibolla, K. Tollefson, I. Torres, R. Torres-Escobedo, T. Weisgarber, J. Wood, A. Zepeda, H. Zhou	Journal of Cosmology and Astroparticle Physics	10.1088/1475-7516/2020/04/026	Internacional	Reino Unido
3	Constraints on the Emission of Gamma-Rays from M31 with HAWC	2020	HAWC Collaboration: A. Albert, R. Alfaro, C. Alvarez, J. C. Artega-Velázquez, K. P. Arunbabu, D. Avila Rojas, H. A. Ayala Salares, E. Belmont-Moreno, S. Y. BenZvi, C. Brisbois, K. S. Caballero-Mora, T. Capistrán, A. Carramiñana, S. Casanova, U. Cotti, J. Colzani, S. Coufño de León, E. De la Fuente, C. de León, S. Dichiaro, B. L. Dingus, M. A. DuVernois, K. Engel, C. Espinoza, H. Fleischhack, N. Fraija, A. Galván-Gómez, D. García-Agullar, J. A. García-González, F. Garfias, M. M. González, J. A. Goodman, J. P. Harding, S. Hernandez, B. Hona, D. Huang, F. Hueyalt-Zahuanitla, P. Hüntemeyer, A. Iritarte, A. Jardin-Blica, V. Joshi, D. Kieda, W. R. Lee, H. León Vargas, A. L. Longinotti, G. Luis-Raya, K. Malone, S. S. Marinelli, O. Martínez, I. Martínez-Castellanos, J. Martínez-Castro, J. A. Matthews, P. Miranda-Romagnoli, J. A. Morales-Soto, E. Moreno, M. Mostafá, A. Nayerhoda, L. Nellen, M. Newbold, R. Noriega-Papaqui, A. Peisker, E. G. Pérez-Pérez, Z. Ren, C. D. Rho, D. Rosa-González, M. Rosenberg, R. Rubenzahl, H. Salazar, F. Salasa Greus, A. Sandoval, M. Schneider, G. Siniis, A. J. Smith, R. W. Springer, P. Surabali, E. Tabacknick, O. Tibolla, K. Tollefson, I. Torres, L. Villaseñor, J. Wood, T. Yapici, A. Zepeda, H. Zhou	The Astrophysical Journal	10.3847/1538-4357/ab7999	Internacional	Estados Unidos
4	Constraints on the velocity dispersion of Dark Matter from Cosmology and new bounds on scattering from the Cosmic Dawn	2020	Iván Rodríguez-Montoya, Vladimir Ávila-Reese, Abdel Pérez-Lorenzana, Jorge Venzor	The Astrophysical Journal	10.3847/1538-4357/ab67d0	Internacional	Estados Unidos
5	First Speckle Interferometric Measurements of binary stars at the Observatorio Astrofísico Guillermo Haro	2020	C.A. Guerrero, F.F. Rosales-Ortega, G. Escobedo, J. Martínez, E. Castillo, P. García-Flores, M.A. Nieto-Suárez	Monthly Notices of the Royal Astronomical Society	https://doi.org/10.1093/mnras/staa1236	Internacional	Reino Unido
6	Flare-like Variability of the Mg II $\lambda 2798$ Å Emission Line and UV Fe II band in the Blazar CTA 102	2020	Vahram Chavushyan, Victor M. Patiño-Álvarez, Raúl A. Amaya-Almazán, and Luis Carrasco	The Astrophysical Journal	https://doi.org/10.3847/1538-4357/ab6ef6	Internacional	Estados Unidos
7	Modelling the strongest silicate emission features of local type 1 AGN	2020	M. Martínez-Paredes, O. González-Martín, D. Esparza-Arredondo, M. Kim, A. Alonso-Herrero, Y. Krongold, T. Hoang, C. Ramos Almeida, I. Arelxaga, D. Dultzin, J. Hodgson	The Astrophysical Journal	10.3847/1538-4357/ab6732	Internacional	Estados Unidos
8	Multiple Galactic Sources with Emission Above 56 TeV Detected by HAWC	2020	AU Abeyskara, A. Albert, R. Alfaro, JR Angeles Camacho, JC Artega-Velázquez, KP Arunbabu, D. Avila Rojas, HA Ayala Salares, V. Baghmanyar, E. Belmont-Moreno, SY BenZvi, C. Brisbois, KS Caballero-Mora, T. Capistrán, A. Carramiñana, S. Casanova, U. Cotti, J. Colzani, S. Coufño de León, E. De la Fuente, C. de León, S. Dichiaro, B.L. Dingus, MA DuVernois, JC Díaz-Vélez, RW Ellsworth, K. Engel, C. Espinoza, H. Fleischhack, N. Fraija, A. Galván-Gómez, D. Garcia, JA García-González, F. Garfias, MM González, JA Goodman, JP Harding, S. Hernandez, J. Hinton, B. Hona, D. Huang, F. Hueyalt-Zahuanitla, P. Hüntemeyer, A. Iritarte, A. Jardin-Blica, V. Joshi, S. Kaufman, D. Kieda, A. Lara, W.H. Lee, H. León Vargas, J.T. Linemann, A.L. Longinotti, G. Luis-Raya, J. Lundeen, R. López-Coto, K. Malone, S.S. Marinelli, O. Martínez, I. Martínez-Castellanos, J. Martínez-Castro, H. Martínez-Huerta, JA Matthews, P. Miranda-Romagnoli, JA Morales-Soto, E. Moreno, M. Mostafá, A. Nayerhoda, L. Nellen, M. Newbold, MU Nisa, R. Noriega-Papaqui, A. Peisker, EG Pérez-Pérez, J. Pretz, Z. Ren, CD Rho, C. Rivière, D. Rosa-González, M. Rosenberg, E. Ruiz-Velasco, F. Salasa Greus, A. Sandoval, M. Schneider, H. Schoorlemmer, G. Siniis, AJ Smith, RW Springer, P. Surabali, E. Tabacknick, M. Tanner, O. Tibolla, K. Tollefson, I. Torres, R. Torres-Escobedo, L. Villaseñor, T. Weisgarber, J. Wood, T. Yapici, H. Zhang, H. Zhou, HAWC Collaboration	Physical Review Letters	10.1103/PhysRevLett.124.021102	Internacional	Estados Unidos



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9	On the early evolution of massive star clusters: the case of cloud D1 and its embedded cluster in NGC 5253	2020	Sergiy Silich, Guillermo Tenorio-Tagle, Sergio Martínez-González, Jean Turner	Monthly Notices of the Royal Astronomical Society	https://doi.org/10.1093/mnras/staa705	Internacional	Reino Unido
10	Search for gamma-ray spectral lines from dark matter annihilation in dwarf galaxies with the High-Altitude Water Cherenkov observatory	2020	A. Albert, R. Alfaro, C. Alvarez, J.C. Arteaga-Velázquez, K.P. Anunbabu, D. Avila Rojas, H.A. Ayala Solares, E. Belmont-Moreno, S.Y. BenZvi, C. Birnstiel, K.S. Caballero-Mora, T. Casichán, A. Carramiñana, S. Casanova, U. Coelli, J. Cotzomi, S. Coufño de León, E. De la Fuente, S. Dichiaro, B. Dingus, M.A. DuVernois, J.C. Díaz-Vélez, K. Engel, C. Espinosa, N. Fraija, A. Galván-Gómez, J.A. García-González, F. Garfias, M.M. González, J.A. Goodman, J.P. Harding, S. Hernandez, B. Hona, D. Huang, P. Huetermeyer, F. Hueyotl-Zahuantla, A. Iriarte, V. Joshi, A. Lara, H. León Vargas, J.T. Lindeemann, A.L. Longinotti, G. Luis-Raya, J. Lundeen, K. Malone, S.S. Martinelli, O. Martínez, I. Martínez-Castellanos, J. Martínez-Castro, J.A. Mattheews, P. Miranda-Romagnoli, J.A. Morales-Soto, E. Moreno, M. Mostafá, A. Navehoda, L. Nelson, M. Newbold, M.U. Nisa, R. Noriega-Papaqui, A. Peisker, E.G. Pérez-Pérez, C.D. Rho, D. Rosa-González, M. Rosenberg, H. Salazar, F. Salesa Greus, A. Sandoval, M. Schneider, R.W. Springer, E. Tabochnik, O. Tibolla, K. Tollefson, I. Torres, R. Torres-Escobedo, T. Weisgarber, J. Wood, A. Zepeda, H. Zhou, C. de León	Physical Review D	10.1103/PhysRevD.101.103001	Internacional	Estados Unidos
11	Supersolar metallicity in G0–G3 main-sequence stars with $V < 15$. II. An extension of the sample	2020	M Chávez, C. Tapia-Schiavon, E. Bertone, R. López-Valdivia	Monthly Notices of the Royal Astronomical Society	https://doi.org/10.1093/mnras/staa683	Internacional	Reino Unido
12	Synthetic spectroscopic indices for identifying multiple stellar populations in globular clusters	2020	E. Bertone, M. Chavez, J. Cesar Mendoza	Monthly Notices of the Royal Astronomical Society	https://doi.org/10.1093/mnras/staa448	Internacional	Reino Unido
13	The redshift and star formation mode of AzTEC2: a pair of massive galaxies at $z = 4.63$	2020	E.F. Jiménez-Andrade, J.A. Zavala, B. Magnelli, C.M. Casey, D. Liu, E. Romano-Díaz, E. Schinnerer, K. Harrington, I. Arelxaga, A. Karim, J. Staguhn, A.D. Burnham, A. Montaña, V. Smolčić, M. Yun, F. Bertoldi, D. Hughes	The Astrophysical Journal	10.3847/1538-4357/ab6dec	Internacional	Estados Unidos
14	TOROS optical follow-up of the advanced LIGO–VIRGO O2 second observational campaign	2020	Rodrigo Arfola, Martin Beratz, Juan Cabral, Richard Camuccia, Moises Castillo, Vahram Chavushyan, Carlos Calaza, Hector Cuevas, Damien L. DePoy, María C. Díaz, Mariana Domínguez, Deborah Dultzin, Daniela Fernández, Antonio C. Ferreira, Aldo Forraque, José Franco, Dario Graña, Carla Girardin, Sebastián Gurovich, Antonio Kanaan, Diego G. Lambas, Marcelo Lares, Alejandro F. Hinojosa, Andrea Hinojosa, Americo F. Hinojosa, Omar López-Cruz, Lucas M. Macri, Jennifer L. Marshall, Raul Melia, Wendy Mendoza, José L. Nilo Castellón, Nelson Padilla, Victor Perez, Tania Peñuela, Wahlyn Rathay, Victor Renz, Emmanuel Ribó-López, Amelía Ramírez Rivera, Tiago Ribeiro, Horacio Rodríguez, Bruno Sánchez, Matias Schneider, William Schoenell, Manuel Starck, Rubén Vrech, Cecilia Guíñanes, Luis Tapia, Marina Tomare, Sergio Torres-Flores, Ervin Vilchis, Adam Zdziarski	Monthly Notices of the Royal Astronomical Society	https://doi.org/10.1093/mnras/stz3634	Internacional	Reino Unido
15	Wolf-Rayet stars in M81 using GTC/OSIRIS: seven new detections, analysis, and classification of the full sample	2020	V. M. A. Gómez-González, Y. D. Mayya, D. Rosa-González, L. H. Rodríguez-Merino, J. A. Tosalá, C. Alvarez	Monthly Notices of the Royal Astronomical Society	https://doi.org/10.1093/mnras/staa426	Internacional	Reino Unido
16	The Average Physical Properties of A-G Stars Derived from uvby-H β Strömgren-Crawford Photometry as the Basis for a Spectral-Classification Synthetic Approach	2020	G. Dalle Mese, O. López-Cruz, W. J. Schuster, C. Chavarria-K, H.J. Ibarra-Medel	Monthly Notices of the Royal Astronomical Society	https://doi.org/10.1093/mnras/staa816	Internacional	Reino Unido
17	The origin of spin in binary black holes. Predicting the distributions of the main observables of Advanced LIGO	2020	Bavera, Simone S.; Fragos, Tassos.; Qin, Ying.; Zapartas, Emmanouil.; Neijssel, Coenraad J.; Mandel, Ilya.; Bafta, Aldo.; Gaebel, Sebastian M.; Kimball, Chase.; Stevenson, Simon	Astronomy & Astrophysics	10.1051/0004-6361/201936204	Internacional	Francia
18	High-resolution Spectral Line Indices Useful for the Analysis of Stellar Populations	2020	Rodríguez-Merino, Lino H.; Mayya, Y. D.; Coelho, Paula R. T.; Bruzual, Gustavo; Charlot, Stéphane; Carrasco, Esperanza; de Paz, Amando Gil	Astrophysical Journal Letters	10.3847/2041-8213/ab6d64	Internacional	Reino Unido
19	The disc-like host galaxies of radio-loud narrow-line Seyfert 1s	2020	Olguín-Iglesias, Alejandro; Kotilainen, Jari; Chavushyan, Vahram	Monthly Notices of the Royal Astronomical Society	10.1093/mnras/stz3549	Internacional	Reino Unido
20	Optical spectroscopic observations of gamma-ray blazar candidates. X. Results from the 2018–2019 SOAR and OAN-SPM observations of blazar candidates of uncertain type	2020	de Menezes, R.; Amaya-Almazán, R. A.; Marchesini, E. J.; Peña-Herazo, H. A.; Massaro, F.; Chavushyan, V.; Paggi, A.; Landoni, M.; Masetti, N.; Ricci, F.; D'Abusco, R.; La Franca, F.; Smith, Howard A.; Milisavljević, D.; Tosti, G.; Jiménez-Bailón, E.; Cheung, C. C.	Astrophysics and Space Science	https://doi.org/10.1007/s10509-020-3727-5	Internacional	Países Bajos
21	Structural analysis of disc super star clusters of M82: size and profile shape at intermediate ages	2020	Cuevas-Otahola, B.; Mayya, Y. D.; Puerari, I.; Rosa-González, D.	Monthly Notices of the Royal Astronomical Society	10.1093/mnras/stz3524	Internacional	Reino Unido
22	MEGARA-GTC stellar spectral library: I	2020	García-Vargas, M. L.; Carrasco, E.; Mollá, M.; Gil de Paz, A.; Berlanas, S. R.; Cardiel, N.; Gómez-Alvarez, P.; Gallego, J.; Iglesias-Parame, J.; Cedazo, R.; Pascual, S.; Castillo-Morales, A.; Pérez-Calpena, A.; Martínez-Delgado, I.	Monthly Notices of the Royal Astronomical Society	https://doi.org/10.1093/mnras/staa126	Internacional	Reino Unido

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23	The Gaia-ESO Survey: Carbon Abundance in the Galactic Thin and Thick Disks	2020	Franchini, Mariagrazia; Morossi, Carlo; Di Marcantonio, Paolo; Chavez, M.; Adibekyan, Vardan Zh.; Bayo, Amelia; Bensby, Thomas; Bragaglia, Angela; Calura, Francesca; Duffau, Sonia; Gonnau, Anais; Heiter, Ulrike; Kordopatis, Georges; Romano, Donatella; Sbordone, Luca; Smiljanic, Rodolfo; Taufvašičič, Gražina; Van der Swaelmen, Mathieu; Delgado Mena, Elisa; Gilmore, Gerry; Randich, Sofia; Carraro, Giovanni; Hourihane, Anna; Magrini, Laura; Morbidelli, Lorenzo; Sousa, Sérgio; Worley, C. Clare.	The Astrophysical Journal	10.3847/1538-4357/ab5dc4	Internacional	Reino Unido
24	Constraints on Lorentz Invariance Violation from HAWC Observations of Gamma Rays above 100 TeV.	2020	Albert, A.; Alfaro, R.; Alvarez, C.; Angeles Camacho, J.R.; Arteaga-Velázquez, J. C.; Arunbabu, K.P.; Avila Rojas, D.; Ayala Solares, H.A.; Baghmanyan, V.; Belmont-Moreno, E.; BenZvi, S. Y.; Břibol, C.; Caballero-Mora, K.; Capistrán, T.; Carramiñana, A.; Casanova, S.; Cotti, U.; Côtzoni, J.; Coutiño de León, S.; De la Fuente, E.; de León, C.; Dingus, B.L.; DuVernois, M.A.; Díaz-Vélez, J.C.; Ellsworth, R.W.; Engel, K.; Espinoza, C.; Fleischhack, H.; Fraija, N.; Galván-Gómez, A.; García, D.; García-González, J.A.; Garfias, F.; González, M.M.; Goodman, J.A.; Harding, J.P.; Hernández, S.; Hono, B.; Huang, D.; Hueyotl-Zahuantla, F.; Hüntemeyer, P.; Iliarte, A.; Joshi, V.; Lara, A.; Lee, W.H.; León Vargas, H.; Linnemann, J.T.; Longinotti, A.L.; Luis-Raya, G.; Lundeen, J.; López-Coto, R.; Malone, K.; Marinelli, S.S.; Martínez-Castellanos, I.; Martínez-Castro, J.; Martínez-Huerta, H.; Matthews, J.A.; Miranda-Romagnoli, P.; Morales-Soto, J.A.; Moreno, E.; Nayerhoda, A.; Nellen, L.; Newbold, M.; Nisa, M.U.; Noriega-Papaqui, R.; Omadeli, N.; Peisker, A.; Pérez-Pérez, E.G.; Rho, C.D.; Rivière, C.; Rosa-González, D.; Rosenburg, M.; Ruiz-Velasco, E.; Salazar, H.; Salesta Greus, F.; Sandoval, A.; Schneider, M.; Schoorlemmer, H.; Sinn, G.; Smith, A.J.; Springer, R.W.; Surajbali, P.; Tabachnick, E.; Tanner, M.; Tibolla, O.; Tollefson, K.; Torres, I.; Torres-Escobedo, R.; Weisgarber, T.; Yadu, G.; Zepeda, A.; Zhou, H.	Physical Review Letters	https://journals.aps.org/prl/abstract/10.1103/	Internacional	Estados Unidos
25	HAWC J2227+610 and Its Association with G106.3+2.7, a New Potential Galactic PeVatron	2020	Albert, A.; Alfaro, R.; Alvarez, C.; Camacho, J.R.; Arteaga-Velázquez, J. C.; Arunbabu, K.P.; Avila Rojas, D.; Ayala Solares, H.A.; Baghmanyan, V.; Belmont-Moreno, E.; BenZvi, S.Y.; Břibol, C.; Caballero-Mora, K.; Capistrán, T.; Carramiñana, A.; Casanova, S.; Cotti, U.; Côtzoni, J.; Coutiño de León, S.; De la Fuente, E.; Diaz-Cruz, I.; Dingus, B.L.; DuVernois, M.A.; Díaz-Vélez, J.C.; Ellsworth, R.W.; Engel, K.L.; Espinoza, C.; Fan, K.L.; Fang, K.; Fernández Alonso, M.; Fleischhack, H.; Fraija, N.; Galván-Gómez, A.; García-González, J.A.; Garfias, F.; Giacinti, G.; González, M.M.; Goodman, J.A.; Harding, J.P.; Hernández, S.; Hinton, J.; Hono, B.; Huang, D.; Hueyotl-Zahuantla, F.; Hüntemeyer, P.; Iliarte, A.; Jardín-Blicq, A.; Joshi, V.; Lee, W.H.; León Vargas, H.; Linnemann, J.T.; Longinotti, A.L.; Luis-Raya, G.; Lundeen, J.; Malone, K.; Marinelli, S.S.; Martínez, O.; Martínez-Castellanos, I.; Martínez-Castro, J.; Matthews, J.A.; Miranda-Romagnoli, P.; Morales-Soto, J.A.; Moreno, E.; Mostafá, M.; Nayerhoda, A.; Nellen, L.; Newbold, M.; Nisa, M.U.; Noriega-Papaqui, R.; Omadeli, N.; Peisker, A.; Pérez-Araujo, Y.; Pérez-Pérez, E.G.; Rho, C.D.; Rosa-González, D.; Ruiz-Velasco, E.; Salazar, H.; Salesta Greus, F.; Sandoval, A.; Schneider, M.; Schoorlemmer, H.; Serna Franco, J.; Sinn, G.; Smith, A.J.; Springer, R.W.; Surajbali, O.; Tabachnick, E.; Tanner, M.; Tibolla, O.; Tollefson, K.; Torres, I.; Torres-Escobedo, R.; Ureña-Mena, F.; Villaseñor, L.; Weisgarber, T.; Zepeda, A.; Zhou, H.; de León, C.; Álvarez, J.D.	The Astrophysical Journal Letters	10.3847/2041-8213/ab96cc	Internacional	Reino Unido
26	NGC 7469 as seen by MEGARA: new results from high-resolution IFU spectroscopy	2020	Š Cazzoli, A Gil de Paz, I Márquez, J Masegosa, J Iglesias, J Gallego, E Carrasco, R Cedazo, M L García-Vargas, A Castillo-Morales.	Monthly Notices of the Royal Astronomical Society	https://doi.org/10.1093/mnras/staa409	Internacional	Reino Unido
27	Spatially Resolved Analysis of Neutral Winds, Stars, and Ionized Gas Kinematics with MEGARA/GTC: New Insights on the Nearby Galaxy UGC 10205	2020	Catalán-Torrecilla, C.; Castillo-Morales, Á.; Gil de Paz, A.; Gallego, J.; Carrasco, E.; Iglesias-Páramo, J.; Cedazo, R.; Chamorro-Cazorla, M.; Pascual, S.; García-Vargas, M. L.; Cardiel, N.; Gómez-Álvarez, P.; Pérez-Calpena, A.; Martínez-Delgado, I.; Dulla, B. T.; Coelho, P.; Bruzual, G.; Charlot, S.	The Astrophysical Journal	10.3847/1538-4357/ab63ca	Internacional	Estados Unidos
28	The near-infrared polarization of the pre-planetary nebula Frosty Leo	2020	Serrano Bernal, E. O.; Sabin, L.; Luna, A.; Devaraj, R.; Mayya, D.; Carrasco, L.	Monthly Notices of the Royal Astronomical Society	https://doi.org/10.1093/mnras/staa1291	Internacional	Reino Unido
29	Infrared Dark Clouds and High-mass Star Formation Activity in Galactic Molecular Clouds	2020	Retes-Romero, R.; Mayya, Y. D.; Luna, A.; Carrasco, L.	The Astrophysical Journal	10.3847/1538-4357/ab93ac	Internacional	Estados Unidos
30	Planetary nebulae with Wolf-Rayet-type central stars - I. The case of the high-excitation NGC 2371	2020	Gómez-González, V. M. A.; Tosal, J. A.; Guerrero, M. A.; Tadt, H.; Sabin, L.; Ramos-Larios, G.; Mayya, Y. D.,	Monthly Notices of the Royal Astronomical Society	10.1093/mnras/staa1542	Internacional	Reino Unido
31	Ultracompact H II regions with extended emission: the complete view	2020	de la Fuente, Eduardo; Porras, Alicia; Trinidad, Miguel A.; Kurtz, Stanley E.; Kemp, Simon N.; Tafaya, Daniel; Franco, José; Rodríguez-Rico, Carlos	Monthly Notices of the Royal Astronomical Society	10.1093/mnras/stz3482	Internacional	Reino Unido



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32	SYMBA: An end-to-end VLBI synthetic data generation pipeline. Simulating Event Horizon Telescope observations of M 87	2020	Roelofs, F.; Janssen, M.; Natarajan, L.; Deane, R.; Davelaar, J.; Olivares, H.; Forth, O.; Paine, S. N.; Bouman, E. L.; Tilanus, R. P. J.; van Bemmel, L. M.; Falcke, H.; Akiyama, K.; Alberdi, A.; Afey, W.; Asada, K.; Aulay, R.; Bacsko, A.; Ball, D.; Balaković, M.; Barrett, J.; Bentley, D.; Blackburn, L.; Boland, W.; Bower, G. C.; Bremer, M.; Brinkerink, C. D.; Brisenden, R.; Britton, S.; Broderick, A. E.; Bulgarelli, D.; Brorbywar, T.; Byun, D.; Castrom, J. E.; Chael, A.; Chan, C.; Chatterjee, S.; Chatterjee, K.; Chan, Y.; Cho, J.; Christian, P.; Conway, J. E.; Cordes, J. M.; Crew, G. B.; Cui, Y.; De Laurentis, M.; Dempsey, J.; Desvignes, G.; Dexter, J.; Doeleman, S. S.; Eatough, R. P.; Fish, V. L.; Fomalont, E.; Fraga-Encinas, R.; Friberg, P.; Fromm, C. M.; Gómez, J. L.; Galloni, P.; Gammie, G. F.; Garcia, R.; Gerritz, O.; Georgiev, B.; Goddi, C.; Gold, R.; Gu, M.; Gurwell, M.; Hada, K.; Hecht, M. H.; Hesper, R.; Ho, L. C.; Ho, P.; Horne, M.; Huang, C. L.; Huang, L.; Hughes, D. H.; Ikeda, S.; Inoue, M.; Issaoun, S.; James, D. J.; Janusz, B. T.; Jeter, B.; Jiang, W.; Johnson, M. D.; Jorstad, S.; Jung, T.; Karali, M.; Karuppusamy, R.; Kawahara, T.; Keating, G. K.; Kettner, M.; Kim, J.; Kim, J.; Kim, J.; Kino, M.; Koay, J. Y.; Koch, P. M.; Koyama, S.; Kramer, M.; Kramer, C.; Krichbaum, T. P.; Kuo, C.; Lauer, T. R.; Lee, S. L.; Li, Y.; Li, Z.; Lindqvist, M.; Lister, A.; Löhmer, A.; Lóránd, L.; Lounsbury, C. L.; Lu, L.; Lunz, C.; MacDonald, R. R.; Mao, J.; Markoff, S.; Marrone, D. P.; Marscher, A. P.; Martí-Vidal, I.; Matsushita, S.; Matthews, L. D.; Medeiros, L.; Menten, K. M.; Mizuno, Y.; Mizuno, I.; Moran, J. M.; Motiyama, K.; Mosciadrozka, M.; Müller, C.; Nagai, H.; Nagar, N. M.; Nakamura, M.; Narayan, R.; Narayanan, G.; Neri, R.; Ni, C.; Nozuka, A.; Okino, H.; Olivares, H.; Oni-León, G.; Ono, T.; Orosco, T.; Osato, F.; Palumbo, D. C.; Park, P. H.; Pen, U.; Pesce, D. W.; Piéhu, V.; Plambeck, R.; Popstefanija, A.; Prather, B.; Priego-López, L.; Psaltis, D.; Pu, H.; Ramakrishnan, V.; Rao, R.; Rawlings, M. G.; Raymond, A. W.; Rezzolla, L.; Ripperda, B.; Rogers, A.; Ros, E.; Rose, M.; Roshaneshat, A.; Rottmann, H.; Roy, A. L.; Ruszczyk, C.; Ryan, B. R.; Rygl, K. L. J.; Sánchez, S.; Sánchez-Aguilera, D. O.; Saadla, M.; Savillainen, T.; Schöberl, F. P.; Schuster, K.; Shao, L.; Shen, Z.; Small, D.; Won Sohn, B.; Soodka, J.; Takaki, F.; Tiede, P.; Tills, M.; Tomo, K.; Torne, P.; Trakouza, E.; Trent, T.; Tripp, S.; Tsuda, S.; van Langevelde, H. J.; van Rossum, D. R.; Wagner, J.; Wardle, J.; Weintraub, J.; Wex, N.; Wharton, R.; Wielgus, M.; Wong, G. N.; Wu, Q.; Young, A.; Young, K.; Younsi, Z.; Yuan, F.; Yuan, Y.; Zensus, J. A.; Zhao, G.; Zhao, S.; Zhu, Z.	Astronomy and Astrophysics	10.1051/0004-6361/201936622	Internacional	Francia
33	Event Horizon Telescope imaging of the archetypal blazar 3C 279 at an extreme 20 microarcsecond resolution. A astronomy and Astrophysics	2020	Jin-Young Kim, Thomas P. Krichbaum, Arvey E. Broderick, Maciek Wielgus, Lindy Blackburn, José I. Gómez, Michael D. Jahnke, Katherine L. Bouman, Andrew Chael, Kazuo Akiyama, Svetlana Jorstad, Alan P. Marscher, Sara Issaoun, Michael Janssen, Chikwan Chan, Tuomas Savolainen, Dominic W. Pesce, Feryal Özel, Anton Alberdi, Walter Afey, Keliich Asada, Rebecca Aulay, Anne-Kathrin Bacsko, David Ball, Mihav Balakovic, John Barrett, Dan Bentley, Wilfred Boland, Geoffrey C. Bower, Michael Bremer, Christian D. Brinkerink, Roger Brisenden, Silke Britton, Dominique Bulgarelli, Thomas Brorbywar, Da-Young Byun, John E. Castrom, Shami Chatterjee, Koushik Chatterjee, Ming-Tang Chen, Yongjun Chen, Jiye Cho, Pierre Christian, John E. Conway, James M. Cordes, Geoffrey B. Crew, Yutzu Cul, Jordy Davelaar, Mariacristina De Laurentis, Roger Deane, Jessica Dempsey, Gregory Desvignes, Joani Dexter, Stephen S. Doeleman, Kishu P. Eatough, Heino Falcke, Vincent L. Fish, Ed Fomalont, Raquel Fraga-Encinas, Per Friberg, Christian M. Fromm, Peter Galloni, Charles F. Gammie, Roberto Garcia, Oliver Gerritz, Boris Georgiev, Ciraço Goddi, Roman Gold, Mingren Gu, Mark Gurwell, Kazuhito Hada, Michael H. Hecht, Ronald Hesper, Luis C. Ho, Tsai Ho, Mareki Horino, Chih-Wai L. Huang, Lei Huang, David H. Hughes, Shiro Ikeda, Makoto Inoue, David J. James, Buell I. Janusz, Bethan Jeter, Wu Jiang, Alejandro Jimenez Rosales, Taehyun Jung, Manou Karali, Ramesh Karuppusamy, Tomohisa Kawahara, Gareth K. Keating, Mark Kettner, Inhwan Kim, Jongsuk Kiriuchi, Jun Yi Koay, Patricia M. Koch, Shoko Koyama, Michael Kramer, Carsten Kramer, Cheng-Yu Kuo, Tad R. Lauer, Sang-Sung Lee, Yan-Rong Li, Zhiyuan Li, Michael Lindqvist, Rocco Lico, Kuo Liu, Elisabetta Luzza, Wen Ping Lu, Andre P. Lubnow, Laurent Lóránd, Colin Lorosco, Ru-Jen Lu, Nicholas R. MacDonald, Jirong Mao, Sara Markoff, Daniel P. Marrone, Ivan Martí-Vidal, Satoshi Matsushita, Lynn D. Matthews, Lisa Medeiros, Karl M. Menten, Yosuke Mizuno, Iurii Mizuno, James M. Moran, Kaito Motiyama, Monika Mosciadrozka, Camelia Müller, Hiroshi Nagai, Neil M. Nagar, Masanori Nakamura, Ramesh Narayan, Gopal Narayanan, Inyuan Natarajan, Roberto Neri, Chunghong Ni, Nikosifis Noutsos, Hiroki Okino, Hecho Olivares, Gisela N. Oni-León, Tamoko Orosco, Daniel C. M. Palumbo, Jongho Park, Nimesh Patel, Ue-Li Pen, Vincent Piéhu, Richard Plambeck, Aleksandar Popstefanija, Oliver Portn, Ben Prather, Jorge A. Priego-López, Dimitrios Psaltis, Hung Yi Pu, Venkatesh Ramakrishnan, Ramprasad Rao, Mark G. Rawlings, Alexander W. Raymond, Luciano Rezzolla, Ralf Ripperda, Irene Riello, Alan Rogers, Alejandro Ros, Wei Ross, Aron Roshaneshat, Heige Rottmann, Alan L. Roy, Chel Ruszczyk, Benjamin R. Ryan, Kazu L. J. Rygl, Salvador Sánchez, Sánchez-Aguilera, D. O., Mahiro Saadla, F. Peter Schöberl, Karl-Friedrich Schuster, Lijing Shao, Zhiqiang Shen, Des Small, Bong Won Sohn, Joann Soodka, Rame Takaki, Paul Tiede, Rana P. T. Tilana, Michael Tills, Feng Tian, Pablo Tiana, Tyler Trent, Effrosini Trakouza, Sascha Tripp, Shuchiro Tsuda, Ise van Bemmel, Hub Jan van Langevelde, Daniel R. van Rossum, Jan Wagner, John Wardle, Derek Ward-Thompson, Jonathan Weintraub, Norbert Wex, Robert Wharton, George N. Wong, Qingwen Wu, Daozuo Yao, André Young, Ken Young, Jii Younsi, Feng Yuan, Fei-Yun Yuan, J. Anton Zensus, Guangyuan Zhao, Shan-Shan Zhao, Ziyun Zhu, Juan Carlos Algaba, Alexander Alarid, Rodrigo Amescua, Jodyn Anczarski, Uwe Bach, Frederick K. Bagaroff, Christopher Beaudoin, Bradford A. Benson, Ryan Berthold, Jay M. Blanchard, Roy Bunnell, Sandra Bustamante, Roger Cappelletti, Edgar Castillo-Dominguez, Chih-Cheng Chang, Shu-Hong Chang, Song-Chu Chang, Chung-Chen Chen, Ryan Chilton, Tim C. Chuter, Rodrigo Córdoba Rosado, Iain M. Coulson, Joseph Crowley, Mark Derome, Matthew Dexter, Ryan Dombusch, Kevin A. Dudorov, Sergio A. Dzib, Andrea Eckart, Chris Eckert, Neal R. Erickson, Wendeline B. Everett, Aaron Faber, Joseph K. Farr, Vernon Firth, Thomas W. Folkner, David C. Forbes, Robert Freund, Arturo J. Gómez-Ruiz, David M. Gale, Feng Gao, Gerlie Geerzema, David A. Graham, Christopher H. Greer, Ronald Grassiein, Frédéric Gueth, Daryl Haggard, Nils W. Halverson, Chih-Chiang Han, Kuo-Chang Han, Jinchi Hao, Yukiko Hasegawa, Jason W. Henning, Antonio Hernández-Gómez, Rubén Hernández-Solano, Stefan Heymrock, Akinho Heits, James Hoge, Youde Huang, G. M. Violette Impellizzeri, Hamrin Jiang, David John, Alish Karimie, Ryan Kessler, Kimhiro Kimura, Yusuke Kono, Derek Kubo, John Kurudo, Richard Lacasse, Robert A. Laing, Erik M. Leitch, Chao-Te Li, Lusin C.-C. Lin, Ching-Fang Liu, Kuan-Yu Liu, Li-Ming Lu, Klipr G. Mangan, Pierre I. Martin-Cocher, Kyle D. Matzeppa, Coste Meloni, Maria F. McConnell, Stephen R. McWhirter, Hugo Messias, Zheng Meyer-Zhao, Daniel Michalik, Alfredo Montaña, William Montagnier, Matias Mora-Rain, Dirk Müller, Andrew Napolitano, Santiago Navarro, Joseph Nelson, Chi H. Nguyen, Heideki Nakada, Timothy Norton, Nicholas A. Nowak, George Nyman, Héctor Osorio, Tamoko Orosco, Harriet Parsons, Juan Perdikis, Neil M. Phillips, Michael Poirier, Nicolas Pradel, Rulik A. Pridmore, Philippe A. Rafan, Alessandro S. Rahlin, George Reiland, Christopher Roscher, Ignacio Ruiz, Alejandro F. Saiz-Adalstein, Remi Sasella, Pin Scheller, Paul Shaw, Kevin M. Slive, Hiroaki Suda, David G. Smith, William Snow, Kamel Souccar, Dan Sousa, T. K. Sridharan, Rongxiu Srinivasan, William Starin, Antony A. Stark, Kyle Stary, Søren T. Tilman, Liqun Vaitochktschik, Orla Warbur, Ta-Shan Wei, Nathan Whitehorn.	Astronomy & Astrophysics	https://doi.org/10.1051/0004-6361/202037493	Internacional	Francia
34	The impact of spectra quality on nebular abundances	2020	Rodríguez, Mónica	Monthly Notices of the Royal Astronomical Society	https://doi.org/10.1093/mnras/staa1286	Internacional	Reino Unido
35	Internal kinematics of giant H II regions in M101 with the Keck Cosmic Web Imager	2020	Bresolin, Fabio; Rizz, Luca; Ho, I., -Ting; Terlevich, Roberto; Terlevich, Elena; Telles, Eduardo; Chávez, Ricardo; Baslakis, Spyros; Pilonis, Manolis	Monthly Notices of the Royal Astronomical Society	10.1093/mnras/staa1472	Internacional	Reino Unido
36	Dielectric properties of litchi fruit (Litchi chinensis Sonn) at microwave frequencies.	2020	Richard Torrealba-Melendez, Edna Iliana Tamaraiz-Flores, María Elena Sosa-Morales, Edgar Colín-Beltrán, Luis Hernández-Ruiz, Jose Eduardo Miranda-Díaz, Luis Hernández-Ruiz	Journal of Food Science and Technology	10.1007/s13197-020-04490-7	Internacional	India

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37	NOEMA redshift measurements of bright Herschel galaxies	2020	Neri, R.; Cox, P.; Omont, A.; Beelen, A.; Berta, S.; Bakx, T.; Lehnert, M.; Baker, A. J.; Buaf, V.; Cooray, A.; Dannerbauer, H.; Dunne, L.; Dye, S.; Eales, S.; Gavazzi, R.; Harris, A. I.; Herrera, C. N.; Hughes, D.; Ivison, R.; Jin, S.; Krips, M.; Lagache, G.; Marchetti, L.; Messias, H.; Negrello, M.; Perez-Fournon, I.; Riechers, D. A.; Serjeant, S.; Urquhart, S.; Vlahakis, C.; Weiß, A.; van der Werf, P.; Yang, C.; Young, A. J.	Astronomy & Astrophysics	10.1051/0004-6361/201936988	Internacional	Francia
38	Approximate evolution for a system composed by two coupled Jaynes-Cummings Hamiltonians	2020	I Ramos-Prieto, A Paredes, J Récamier, H Moya-Cessa	Physica Scripta	10.1088/1402-4896/ab538b	Internacional	Reino Unido, Philadelphia, Beijing, Moscow, St. Petersburg, Tokio, Washington
39	Depth image simplification	2020	Veronica Hernandez-Areola, Francisco-J Renero Carrillo, Raquel Díaz Hernández	OSA Continuum	10.1364/OSAC.388580	Internacional	Washington
40	Design and characterization of a safe Shack-Hartmann type aberrometer for making in-vivo measurements: Heuristic approximation	2020	LG Valdivieso-González, AF Muñoz-Potosi, E Tepichin-Rodríguez	Optics Communications	10.1016/j.optcom.2019.124500	Internacional	Ámsterdam, Países Bajos
41	Design of a fully integrated inductive coupling system: a discrete approach towards sensing ventricular pressure	2020	Natiely Hernández Sebastián, Noé Villa Villaseñor, Francisco-Javier Renero-Carrillo, Daniela Díaz Alonso, Wilfrido Calleja Ariaga	Sensors	10.3390/s20051525	Internacional	Suiza, Beijing, China, Wuhan, China, Barcelona, España, Belgrado, Serbia, Manchester, UK, Tianjin, China, Tokio, Japón, Cluj, Romania
42	Development of a dynamic interferometer using recycled components based on polarization phase shifting techniques	2020	JM Islas Islas, Victor H Flores-Muñoz, D-I Serrano-García, JG Ortega-Mendoza, M Durán Sánchez, A Guzmán Barroza, Noel-Ivan Toto-Arellano	Optics & Laser Technology	https://doi.org/10.1016/j.optlastec.2019.1059	Internacional	Ámsterdam, Países Bajos
43	Dynamical analysis of mass-spring models using Lie algebraic methods	2020	A.R. Urzúa, I. Ramos-Prieto, F. Soto-Eguibar, H.M. Moya-Cessa	Physica A: Statistical Mechanics and its Applications	https://doi.org/10.1016/j.physa.2019.123193	Internacional	Ámsterdam, Países Bajos
44	Fluorescence of serotonin in the visible spectrum upon multiphotonic photoconversion	2020	Guillermo A Hernández-Mendoza, Dilia Aguirre-Olivas, Mario González-Gutiérrez, Héctor J Leal, Naser Qureshi, Carlos G Treviño-Palacios, Jorge Peón, Francisco F De-Miguel	Biomedical Optics Express	10.1364/BOE.380412	Internacional	Washington
45	Generation of bright spatial quasi-solitons by arbitrary initial beam profiles in local and nonlocal (1+ 1)-Dimensional nonlinear media	2020	Majid Hesami, Mahrokh Avazpour, MM Méndez Otero, J Ariaga, MD Iturbe Castillo, S Chávez Cerda	Optik	10.1016/j.jijeo.2019.163504	Internacional	Alemania
46	Generation of quasi-rectangle-states of the vibrational motion of an ion	2020	Irán Ramos-Prieto, Iván Rincón, Víctor Arizon, Héctor M Moya-Cessa	Physica Scripta	10.1088/1402-4896/ab5ff0	Internacional	Inglaterra
47	Intelligent-assistant system for scleral spur location	2020	JE Gómez-Correa, LM Torres-Treviño, E Moragrega-Adame, M Mayorquin-Ruiz, C Villalobos-Ojeda, C Velasco-Barona, S Chávez-Cerda	Applied Optics	10.1364/AO.384440	Internacional	Washington
48	Intracavity generated visible self-reconstructing Bessel-like laser beams by thermal effect	2020	Shengwei Cui, Bin Xu, Saiyu Luo, Huiying Xu, Zhiping Cai, Jixiong Pu, Sabino Chávez-Cerda	Optics Communications	10.1016/j.optcom.2019.124823	Internacional	Ámsterdam, Países Bajos
49	Multisoliton pulse breakup in WKB approximation	2020	N Komeev, JA Catana Castellanos, VA Vysloukh	Optik	https://doi.org/10.1016/j.jijeo.2020.164359	Internacional	Alemania
50	Novel Assessment of Urinary Albumin Excretion in Type 2 Diabetes Patients by Raman Spectroscopy	2020	Jose L Flores-Guerrero, Aaron Muñoz-Morales, Freddy Narea-Jimenez, Ricardo Perez-Fuentes, Enrique Torres-Rasgado, Guadalupe Ruiz-Vivanco, Naara Gonzalez-Viveros, Jorge Castro-Ramos	Diagnostics	10.3390/diagnostics10030141	Internacional	Suiza, Beijing, China, Wuhan, China, Barcelona, España, Belgrado, Serbia, Manchester, UK, Tianjin, China, Tokio, Japón, Cluj, Romania
51	Optical non-Hermitian para-Fermi oscillators	2020	S Rodríguez-Walton, B Jaramillo Ávila, BM Rodríguez-Lara	Physical Review A	10.1103/PhysRevA.101.043840	Internacional	Estados Unidos
52	Pegg-Barnett coherent states	2020	I Ramos-Prieto, L A Andrade-Morales, F Soto-Eguibar, H M Moya-Cessa	Journal of the Optical Society of America B	10.1364/JOSAB.379075	Internacional	Washington
53	PT-symmetry from Lindblad dynamics in an optomechanical system	2020	B Jaramillo Ávila, C Ventura-Velázquez, R de J León-Mantiel, YN Joglekar, BM Rodríguez-Lara	Scientific Reports	10.1038/s41598-020-58582-7	Internacional	Londres, Inglaterra

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54	Study of Si and Ge Atoms Termination Using H-Dilution in SiGe: H Alloys Deposited by Radio Frequency (13.56 MHz) Plasma Discharge at Low Temperature	2020	Ismael Cosme, Andrey Kosarev, Sarai Zarate-Galvez, Hiram E Martínez, Svetlana Mansurova, Yuri Kudriavtsev	Materials	10.3390/ma13051045	Internacional	Suiza, Beijing, China, Wuhan, Cina, Barcelona, España, Belgrado, Serbia, Manchester, UK, Tianjin, China, Tokio, Japón, Cluj, Rumania
55	Sub-200-kHz single soliton generation in a long ring Er-fiber laser with strict polarization control by using twisted fiber	2020	LA Rodríguez-Morales, B Ibarra-Escamilla, I Armas-Rivera, O Pottiez, MV Andrés, M Durán-Sánchez, EA Kuzin	Optics & Laser Technology	https://doi.org/10.1016/j.optlastec.2020.106045	Internacional	Ámsterdam, Países Bajos
56	Talbot effect based tunable setup for the measurement of stepped surfaces: Plane and spherical wavefront illumination	2020	E Tepichin-Rodríguez, P Rodríguez-Montero, AF Muñoz-Potosí, LG Valdivieso-González	Optics Communications	10.1016/j.optcom.2020.126044	Internacional	Ámsterdam, Países Bajos
57	Theoretical and experimental study of acoustic waves generated by thermocavitation and its application in the generation of liquid jets	2020	R Zaca-Morán, J Castillo-Mixcóatl, NE Sierra-González, JM Pérez-Corte, P Zaca-Morán, JC Ramírez-San-Juan, R Ramos-García, JP Padilla-Martínez	Optics Express	10.1364/OE.375900	Internacional	Washington
58	Topographic synthesis of arbitrary surfaces with vortex jinc functions	2020	JE Gómez-Correa, MA Platas-Garza, JP Trevino, A Jaimes-Nájera, AL Padilla-Ortiz, A Galaviz-Mosqueda, V Coello, J Rogel-Salazar, S Chávez-Cerda	Applied Optics	https://doi.org/10.1364/AO.383157	Internacional	Washington
59	Information retrieval using overlapping holograms with partial complementarity	2020	Joan Manuel Villa-Hernández, Arturo Olivares-Pérez, Rosaura Vallejo-Mendoza, Roxana María Herrán-Cuspinera, and Carlos Gerardo Treviño-Palacios	Optics Express	10.1364/OE.384017	Internacional	Washington
60	Filter construction using Ronchi masks and Legendre polynomials to analyze the noise in aberrations by applying the irradiance transport equation	2020	J. A. Ariaga-Hernández, B. T. Cuevas Otahola, J. Oliveros, A. Jaramillo-Núñez, M. Morán Castillo	Applied Optics	10.1364/AO.389716	Internacional	Washington
61	Invariant correlated optical fields driven by multiplicative noise	2020	M Vargas Morales, E Saldivia Gomez, J.C. Atenco, g. Arenas Muñoz, A Garcia Guzman, P. Martinez Vara and Gabriel Martinez Niconoff	Applied Optics	10.1364/Ao391029	Internacional	Washington
62	Dark soliton and quasi-soliton by arbitrary initial beam profiles in negative Kerr local and nonlocal medium	2020	Majid Hesami, Mahrokh Avazpour, M. M. Mendez Otero and M. D. Iturbe Castillo	Optik	10.1016/j.jllee.2019.163892	Internacional	Alemania
63	Spectral signatures of non-thermal baths in quantum thermalization	2020	R. Román-Ancheyta, B. Çakmak and Ö. E. Müstecaplıoğlu	Quantum Science and Technology	10.1088/2058-9565/ab5e4f	Internacional	Inglaterra, Philadelphia
64	Spectral collapse in the two-photon quantum Rabi model	2020	R. J. Amenta Rico, F. H. Maldonado-Villamizar, and B. M. Rodríguez-Lara	Physical Review A	10.1103/PhysRevA.101-063825	Internacional	Estados Unidos
65	Optothermal generation, trapping, and manipulation of microbubbles	2020	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	Optics Express	10.1364/OE.389980	Internacional	Washington
66	Optical trapping in the presence of laser-induced thermal effects	2020	J. A. Zenteno-Hernandez, J. Vázquez Lozano, J. A. Sarabia-Alonso, J. Ramírez-Ramírez, and R. Ramos-García	Optical Letters	10.1364/OL.394647	Internacional	Washington
67	Polarisation-insensitive generation of complex vector modes from a digital micromirror device	2020	Carmelo Rosales-Guzmán, Xiao-Ba Hu, Adam Selyem, Pedro Moreno-Acosta, Sonja Franke-Arnold, Ruben Ramos-García, and Andrew Forbes	Scientific Reports	10.1038/s41598-020-66799-9	Internacional	Londres, Inglaterra
68	A 0.18 µm CMOS capacitor-less Low-Drop Out Voltage Regulator Compensated via the Bootstrap Flipped-Voltage Follower	2020	G. Zamora Mejía, D.E. Gomez Garcia, H. Giron Nieto, Jaime Martínez Castillo, L.A. Moreno Coaña, J.M. Rocha-Pérez, Alejandro Díaz Sánchez	Microelectronics Journal	10.1016/j.mejo.2020.104809	Internacional	Inglaterra
69	A Method of Differences for Determining the Propagation Constant from Multiline Measurements	2020	Yojanes Rodríguez Velásquez, Svetlana C. Sejas García, Reydezel Torres Torres	IEEE Microwave and Wireless Components Letters	10.1109/LMW.2020.2968236	Internacional	Estados Unidos
70	A novel chaotic system in the spherical coordinates	2020	Lianyu Chen, Esteban Tlelo-Cuautle, Ibrahim Ismael Hamarash, Viet Thanh Pham, Hamid Reza Abdolmohammadi	The European Physical Journal Special Topics	10.1140/epjst/e2020-900246-1	Internacional	Alemania
71	Analysis of the conduction mechanisms responsible for multilevel bipolar resistive switching of SiO ₂ /Si multilayer structures	2020	KE. González Flores, P Horley, SA. Cabañas Tay, SA. Pérez-García, L. Licea Jiménez, L Palacios Huerta, Mariano Aceves Mijares, Mario Moreno Moreno, Alfredo Morales Sánchez	Superlattices and Microstructures	10.1016/j.spmi.2019.106347	Internacional	Inglaterra
72	Analytical drain current model for α -SiGe:H thin film transistors considering density of states	2020	S.S. Rodríguez, F.L. Huerta, A.L.H. May, J. Molina and J.M. Castillo	Electronics	10.3390/electronics9061016	Internacional	Suiza
73	A parallel auto-adaptive topology for integrated energy harvesting system	2020	Roberto Rafael Flores Quintero, Guillermo Espinosa Flores Verdad, Victor Rodolfo Gonzalez Diaz, Luis Antonio Carrillo Martinez	Microelectronics Journal	10.1016/j.mejo.2020.104736	Internacional	Inglaterra



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74	Catact Detection and Classification Systems Using Computational Intelligence	2020	Morales Lopez H., Cruz-Vega Israel, Rangel Magdalena José de Jesus.	Archives of Computational Methods in Engineering	10.1007/s11831-020-09440-2	Internacional	Países Bajos
75	Chaotic Image Encryption Using Hopfield and Hindmarsh-Rose Neurons Implemented on FPGA	2020	Esteban Tlelo Cuautle, Jonathan Daniel Dña Muñoz, Astrid Maritza González Zapata, Rui Li, Walter Daniel León Salas, Francisco V. Fernández, Omar Guillén Fernández, Israel Cruz Vega	Sensors	10.3390/s20051326	Internacional	Suiza
76	Characterization and modeling of on-chip via stacks for RF-CMOS applications	2020	Carlos Sanabria Díaz, Mónico Linares Aranda, Reydezel Torres Torres, Alejandro Díaz Sánchez	IJICE Electronics Express	10.1587/elex.17.20190735	Internacional	Tokio, Japón
77	CMOS analog AGC for biomedical applications	2020	R. Bolaños Pérez, M Rocha-Pérez, Alejandro Díaz Sánchez, J. Ramírez Angulo, Esteban Tlelo Cuautle	Electronics	10.3390/electronics9050878	Internacional	Suiza
78	Compact closed-loop resonator filters with wide spurious free band and extended common-mode noise suppression	2020	Arbelaez A, Olvera J, Corona A, Saavedra C	IEE Microwave, Antennas & Propagation	10.1049/iet-map.2019.0581	Internacional	Inglaterra
79	Convergence rates of the efficient global optimization algorithm for improving the design of analog circuits	2020	Nawal Dirra, Mouna Koffi, Mourad Fakhfakh, Patrick Siary, Esteban Tlelo Cuautle	Analog Integrated Circuits and Signal Processing	10.1007/s10470-020-01585-1	Internacional	Países Bajos
80	Deep Learning Classification for Diabetic Foot Thermograms	2020	Israel Cruz-Vega, Daniel Hernandez-Contreras, Hayde Peregrina-Barreto, Jose de Jesus Rangel-Magdaleno, Juan Manuel Ramirez-Cortes	Sensors	10.3390/s20061762	Internacional	Suiza
81	Design of multiplierless comb compensators with magnitude response synthesized as sinusoidal functions	2020	Gordana Jovanovic Dolecek	Facta universitatis-series: Electronics and Energetics	10.2298/FUEE2001001J	Internacional	Serbia
82	Designing a new data acquisition circuit for SiPM-based detection systems—MexSIC	2020	SA Rosales Nuñez, A. Baulista Castillo, VR. Gonzalez Díaz, Daniel Durini, Alejandro Díaz Sánchez, J. Miguel Rocha Pérez, José de J. Rangel Magdalena, R. Alfaro, A. Iriarte	Journal of Instrumentation	10.1088/1748221/15/03/C03043	Internacional	Inglaterra
83	Detection of Salmonella enterica on Silicon Substrates Biofunctionalized with anti-Salmonella IgG, analyzed by FTIR spectroscopy	2020	F.J. Gómez Montaño, A. Orduña Díaz, M.C.G. Avelino Flores, F. Avelino Flores, F. Ramos Collazo, Claudia Reyes Belanzo, V. López Gayou	Mexicana de Ingeniería Química	10.24275/imq/Bio993	Nacional	México
84	Determination of ionic strength due to magnesium sulfate heptahydrate in water by means of its permittivity in the microwave range	2020	Gómez, E.S.H., Olvera-Cervantes, J.L., Vásquez, B.C., Chávez, A.C., Flores, L.S.P. and Kataría, T.K	Microwave Power and Electromagnetic Energy	10.1080/08327823.2020.1714106	Internacional	Estados Unidos
85	Development of a solid-state position sensitive neutron detector prototype based on 6Li-glass scintillator and digital SiPM arrays	2020	S Kumar, M Herzkamp, Daniel Durini Romero, H Nöldgen, S van Waasen	Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment	10.1016/j.nima.2018.12.012	Internacional	Países Bajos
86	Effective Parameters for 1D Photonic Crystals with Isotropic and Anisotropic Magnetic Inclusions: Coherent Wave Homogenization Theory	2020	J. Flores Méndez, AC, Reyes, Mario Moreno Moreno, Alfredo Morales Sánchez, Gustavo M. Minquiz, RC, Lázaro, Héctor Vázquez Leal, F. Candia García	Materials	10.3390/ma13061475	Internacional	Suiza
87	Energy Consumption, Conversion, and Transfer in Nanometric Field-Effect Transistors (FET) Used in Readout Electronics at Cryogenic Temperatures	2020	O. López López, I. Martínez, A. Cabrera, Edmundo A. Gutiérrez D., D. Ferrusca, Daniel Durini, Francisco J. De la Hoidalga Wade, M. Velazquez, O. Huerta, A. Kruth, C. Degenhardt, A. Arfanov, Svan Waasen	Journal of Low Temperature Physics	10.1007/s10909-020-02340-6	Internacional	Nueva York
88	Enhanced photocatalytic bacterial inactivation of atomic-layer deposited anatase-TiO2 thin films on rutile-TiO2 nanotubes	2020	Joel Molina Reyes, Alejandra Romero Morán, José L. Sánchez Salas	Photochemical & Photobiological Sciences	10.1039/C9PP00348G	Internacional	Inglaterra
89	Experimental Transmission of Digital Data Coded on Electrical Carriers at 2.1 GHz and 4.2 GHz by Using a Microwave Photonic Filter	2020	Ana Gabriela Correa Mena, Alicia Vera Marquina, Alejandro García Juárez, Jorge Rodríguez Asomoza, Ignacio Enrique Zaldivar Huerta	Electronics	10.3390/electronics9050833	Internacional	Suiza
90	Fabrication of Microbolometer Arrays Based on Polymorphous Silicon-Germanium	2020	Ricardo Jimenez, Mario Moreno, Alfonso Torres, Alfredo Morales, Arturo Ponce, Daniel Ferrusca, Jose Rangel-Magdaleno, Jorge Castro Ramos, Julio Hernández Pérez, Eduardo Cano	Sensors	10.3390/s20092716	Internacional	Suiza
91	FPGA-based system for effective IQ imbalance mitigation of RF power amplifiers	2020	José Cruz Nuñez Pérez, Sergio Alberto Juarez Cazares, José Alejandro Galaviz Aguilera, Yuma Sandoval Ibarra, Francisco Javier Pérez Pinal, Esteban Tlelo Cuautle	International Journal of Circuit Theory and Applications	10.1002/cta.2746	Internacional	Inglaterra
92	FPGA Implementation of Homotopic Path Planning Method with Automatic Assignment of Repulsion Parameter	2020	I. H.E. De Cos-Cholulá, G.U. Diaz-Arango, L. Hernandez-Martinez, H. Vazquez-Leal, A. Sarmiento-Reyes, M.T. Sanz-Pascual, A.L. Herrero-May, R. Castaneda-Sheissa	Energies	10.3390/en13102623	Internacional	Suiza
93	Homogenization method for one-dimensional photonic crystals with magnetic and chiral inclusions	2020	Javier Flores Méndez, Benito Zenteno Mateo, Mario Moreno Moreno, Alfredo Morales Sánchez, Gustavo M. Minquiz, Hector Vázquez Leal, Israel Vivaldo De la Cruz, Silvia Cortés López, Ana Cecilia Piñón Reyes, Roberto Ambrosio	The European Physical Journal B	10.1140/epjb/e2020-10095-4	Internacional	Alemania
94	Investigation of Early Warning Indexes in a Three-Dimensional Chaotic System with Zero Eigenvalues	2020	Lianyu Chen, Fahimeh Nazarinmehr, Sajad Jafari, Esteban Tlelo Cuautle, Iqtadar Hussain	Entropy	10.3390/e22030341	Internacional	Suiza
95	Metamodeling Techniques for the Optimal Design of Low Noise Amplifiers	2020	Amel Garbaya, Mouna Koffi, Mourad Fakhfakh, Esteban Tlelo-Cuautle	Electronics	10.3390/electronics9050787	Internacional	Suiza



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96	Microwave Characterization of Liquid Samples Through the Systematic Parameter Extraction of the Circuit Equivalence for the Debye Model	2020	E. Moctezuma Pascual, Gabriela Méndez Jerónimo, Z. O. Rodríguez Moré, H. Lobato Morales, Reydezel Torres Torres	IEEE Microwave and Wireless Components Letters	10.1109/LMWC.2019.2952977	Internacional	Estados Unidos
97	MIM capacitors as simple test vehicles for the DC/AC characterization of ALD-Al ₂ O ₃ with auto-correction of parasitic inductance	2020	G. Méndez-Jerónimo, Z. O. Rodríguez-Moré, H. Lobato-Morales, Reydezel Torres Torres	Microelectronics Reliability	10.1016/j.microrel.2019.113516	Internacional	Inglatera
98	Miniature Patch and Slot Microstrip Arrays for IoT and ISM Band Applications	2020	Karen Nallely Olan Nuñez, R. Murphy, E. Colín	Multidisciplinary Digital Publishing Institute	10.1109/ACCESS.2020.299873	Internacional	Estados Unidos
99	Multiple passband microwave photonic filter with adjustable bandwidth	2020	LA. González Mondragón, L.J. Quintero Rodríguez, A. García Juárez, A. Vera Marquina, Ignacio E. Zaldivar Huerta	Optics & Laser Technology	10.1016/j.optlastec.2020.106133	Internacional	Inglatera
100	Multiple-Target Homotopic Quasi-Complete Path Planning Method for Mobile Robot Using a Piecewise Linear Approach	2020	Gerardo Diaz-Arango, Hector Vazquez-Leal, Luis Hernandez-Martinez, Victor Manuel Jimenez-Fernandez, Aurelio Heredia-Jimenez, Roberto Ambrosio, Jesus Huerta Chua, Hector de Cos-Cholula, Sergio Hernandez-Mendez	Sensors	10.3390/s20113265	Internacional	Suiza
101	NiSi ₂ as a bottom electrode for enhanced endurance of ferroelectric Y-doped HfO ₂ thin films	2020	Joel Molina Reyes, Takuya Hoshii, Shun Ichiro Ohmi, Hiroshi Funakubo, Atsushi Hori, Ichiro Fujiwara, Hitoshi Wakabayashi, Kazuo Tsutsui, Kuniyuki Kakushima	Japanese Journal of Applied Physics	10.35848/1347-4065/ab6b7c	Internacional	Japón
102	Optical transmission of an analog TV-signal coded at 2.24 GHz and its distribution by using a radiating cable	2020	Ana Gabriela Correa Mena, Jorge Alberto Seseña-Osoño, Melissa Eugenia DiagoMosquera, Alejandro Aragón Zavala, Ignacio Enrique Zaldivar Huerta	Electronics	10.3390/electronics9060917	Internacional	Suiza
103	Performance improvement of an optoelectronic oscillator by modifying the optical characteristics of a multimode laser diode	2020	Leidy Johana Quintero Rodríguez, Min Won Lee, Jorge Rodríguez Asomoza, Ignacio Enrique Zaldivar Huerta	Optics & Laser Technology	10.1016/j.optlastec.2020.106263	Internacional	Inglatera
104	Permittivity Determination Considering the Metal Surface Roughness Effect on the Microstrip Line Series Inductance and Shunt Capacitance	2020	Erika Y Terán Bahena, Svetlana C. Sejas Garcia, Reydezel Torres Torres	IEEE Transactions on Microwave Theory and Techniques	10.1109/TMIT.2020.2979964	Internacional	Estados Unidos
105	Power Efficient Simple Technique to Convert a Reset-and-Hold into a True-Sample-and-Hold Using an Auxiliary Output Stage	2020	Hector D. Rico Aniles, Jaime Ramírez Angulo, Antonio J. López Martín, Ramon G. Carvajal, José M. Rocha Pérez, M. Pilar Garde	IEEE Access	10.1109/ACCESS.2020.2985256	Internacional	Estados Unidos
106	Randomness improvement of chaotic maps for image encryption in a wireless communication scheme using PIC-microcontroller via Zigbee channels	2020	EE. García Guerrero, E. Inzunza González, OR. López Bonilla, JR. Cárdenas Valdez, Esteban Tlelo Cuautle	Chaos, Solitons & Fractals	10.1016/j.chaos.2020.109646	Internacional	Inglatera
107	Reduction of residual stress in polymorphous silicon germanium films and their evaluation in microbolometers	2020	Ricardo Jiménez, Mario Moreno, Alfonso Torres, Roberto Ambrosio, Aurelio Heredia, Arturo Ponce	The European Physical Journal Applied Physics	10.105/epjap/2020190245	Internacional	Estados Unidos
108	Self-organized and self-assembled TiO ₂ nanosheets and nanobowls on TiO ₂ nanocavities by electrochemical anodization and their properties	2020	Alba Hernández Arenas, Carlos Zúñiga Islas, Alfonso Torres Jacome, Julio Cesar Mendoza Cervantes	Nano Express	10.1088/2632-959X/ab970c	Internacional	Washington
109	Sizing CMOS Amplifiers by PSO and MOL to Improve DCOP Conditions.	2020	Esteban Tlelo Cuautle, MA. Valencia,Ponce, LG. De La Fraga	Electronics	10.3390/electronics9050787	Internacional	Suiza
110	Strong white light emission from SiC _x O _y films grown by HFCVD technique	2020	A. Coyopol, G García Salgado, T. Díaz Beceril, MA. Vásquez Agustín, R. Romano Trujillo, R. López, E. Rosendo, FG. Nieto Caballero, C. Morales Ruiz, Alfredo Morales Sánchez	Optical Materials	10.1016/j.optmat.2019.109551	Internacional	Países Bajos
111	Study of nanocrystalline silicon-germanium for the development of thin film transistors	2020	Arturo Torres, Mario Moreno, Pedro Rosales, Miguel Dominguez, Alfonso Torres, Alfredo Morales, Adrian Itzmoyotl, Javier de la Hidalga	The European Physical Journal Applied Physics	10.1051/epjap/2020190264	Internacional	Estados Unidos
112	Study on the photocatalytic activity of titanium dioxide nanostructures: Nanoparticles, nanotubes and ultra-thin films	2020	J Molina-Reyes, A Romero-Moran, H Uribe-Vargas, B Lopez-Ruiz, JL Sanchez-Salas, E Ortega, A Ponce, A Morales-Sanchez, F Lopez-Huerta, C Zúñiga-Islas	Catalysis Today	10.1016/j.cattod.2018.05.033.	Internacional	Países Bajos
113	Surface Evaluation of Photoactivated TiO ₂ Films	2020	RM. Woo Garcia, L Garcia González, AL. Herrera May, C Zúñiga Islas, Wilfrido Calleja Ariaga, Joel Molina Reyes, M. Pacio Castillo, F. López Huerta	Microscopy and Microanalysis	10.1017/S1431927620001038	Internacional	Estados Unidos
114	Transiting Exoplanet Discovery Using Machine Learning Techniques: A Survey Earth Science Informatics	2020	Miguel Angel Jara Maldonado, Vicente Alarcon-Aquino, Roberto Rosas-Romero, Oleg Starostenko, Juan Manuel Ramirez-Cortes	Earth Science Informatics	10.1007/s12145-020-00464-7	Internacional	Alemania
115	Water-based frequency selective surface for green electronics applications	2020	JL Valdez García, José L. Overa Cervantes, TK. Kataria, Alonso Carona Chavez	Journal of Electromagnetic Waves and Applications	10.1080/09205071.2020.1750490	Internacional	Países Bajos
116	Wideband dual-mode microstrip resonators as IF filters in a K-band wireless transceiver	2020	Luis A. Rodríguez Meneses, Celso Gutiérrez Martínez, Roberto S. Murphy Arteaga, Jacobo Meza Pérez, José Alfredo Torres Fórtiz	Microwave and Optical Technology Letters	10.1002/mop.32066	Internacional	Estados Unidos
117	A Double Fragmentation Approach for Improving Virtual Primary Key-Based Watermark Synchronization	2020	Maikel Lázaro Pérez Gort; Claudia Feregrino-Uribe; Agostino Cortes; Félix Fernández-Peña	IEEE Access	DOI: 10.1109/ACCESS.2020.2979659	Internacional	Estados Unidos

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118	A Metaheuristic Optimization Approach for Parameter Estimation in Arrhythmia Classification from Unbalanced Data	2020	Juan Carlos Carrillo-Alarcón, Luis Alberto Morales-Rosales, Héctor Rodríguez-Rangel, Mariana Lobato-Báez, Antonio Muñoz and Ignacio Algreto-Badillo	Sensors	https://doi.org/10.3390/s20113139	Internacional	Suiza
119	A Non-Linear Model for A Smart Semantic Browser Bot for A Text Attribute Recognition	2020	R. Carreño Aguilera, M. A. Acevedo Mosqueda, M. E. Acevedo Mosqueda, S. L. Gómez coronel, I. Algreto Badillo, D. Pacheco Bautista, M. Patiño Ortiz, J. Patiño Ortiz, M.A. Martínez Cruz	Fractals-Complex Geometry, Patterns, and Scaling in Nature and Society	https://doi.org/10.1142/S0218348X20500450	Internacional	Singapur
120	A semantics of intentional silence in omissive implicature	2020	arcés-Báez, Alfonso, López-López, Aurelio	Journal of Intelligent & Fuzzy Systems	DOI: 10.3233/JIFS-179877	Internacional	Países Bajos
121	An Explainable Artificial Intelligence Model for Clustering Numerical Databases	2020	Octavio Loyola-González, Andres Eduardo Gutierrez-Rodríguez, Miguel Angel Medina-Pérez, Raul Monroy, José Fco. Martínez-Trinidad, Jesus Ariel Carrasco-Ochoa, Milton García-Boroto	IEEE Access	DOI: 10.1109/ACCESS.2020.2980581	Internacional	Estados Unidos
122	An FPGA-based analysis of trade-offs in the presence of ill-conditioning and different precision levels in computations	2020	Algreto-Badillo I, Conde-Mones JJ, Hernández-Gracidas CA, Morín-Castillo MM, Oliveros-Oliveros JJ, Feregrino-Urbe C	PLoS ONE	https://doi.org/10.1371/journal.pone.0234293	Internacional	Estados Unidos
123	An Open-Source-Based Software to Capture Aerial Images and Video Using Drones	2020	José Martínez Carranza, Mariana Edith Miranda Varela, Edgar Jacob Sosa Cerón, Raymundo Domínguez Colín, Leticia Oyuiki Rojas Pérez and Aldrich Alfredo Cabrera Ponce	Realidad, datos y espacio revista Internacional de estadística y geografía	https://www.inegi.org.mx/rde/wp-content/u	Nacional	México
124	Argumentative relation identification in academic texts	2020	García-Gorostieta, Jesús Miguel, López-López, Aurelio, González-López, Samuel	Journal of Intelligent & Fuzzy Systems	DOI: 10.3233/JIFS-179874	Internacional	Países Bajos
125	Assessing Thesis Conclusions by their Goal Connectedness, Judgment and Speculation	2020	Samuel González-López, Aurelio López López	Revista Signos	http://revistasignos.cl/index.php/signos/artic	Internacional	Chile
126	Automatic filter coefficient calculation in lifting scheme wavelet transform for lossless image compression	2020	Ignacio Hernández-Bautista, Jesús Ariel Carrasco-Ochoa, José Francisco Martínez-Trinidad, José Juan Carbajal-Hernández	Visual Computer	https://doi.org/10.1007/s00371-020-01846-0	Internacional	Estados Unidos
127	Autonomic Web Services Based on Different Adaptive Quasi-Asynchronous Checkpointing Techniques	2020	Mariano Vargas-Santiago, Luis Morales-Rosales, Raul Monroy, Saul Pomares-Hernandez and Khalil Dirra	Applied Sciences	https://doi.org/10.3390/app10072495	Internacional	Suiza
128	Casia-surf: A large-scale multi-modal benchmark for face anti-spoofing	2020	Shifeng Zhang, Aijian Liu, Jun Wan, Yanyan Liang, Guodong Guo, Sergio Escalera, Hugo Jair Escalante, Stan Z Li	IEEE Transactions on Biometrics, Behavior, and Identity Science	https://doi.org/10.1109/TBIOM.2020.2973001	Internacional	Estados Unidos
129	Custom Domain Adaptation: a new method for cross-subject, EEG-based cognitive load recognition	2020	Magdiel Jimnez-Guameros ; Pilar Gomez-Gil	IEEE Signal Processing Letters	DOI: 10.1109/LSP.2020.2989663	Internacional	Estados Unidos
130	Deep Learning: Current State	2020	Joaquin Salas ; Flavio de Barros Vidal ; Francisco Martínez-Trinidad	IEEE Latin America Transactions	DOI: 10.1109/TLA.2019.9011537	Internacional	Estados Unidos
131	Detection of nearby UAVs using a multi-microphone array on board a UAV	2020	Aldrich A Cabrera-Ponce, J Martinez-Carranza, Caleb Rascon	International Journal of Micro Air Vehicles	https://doi.org/10.1177/1756829320925748	Internacional	Inglaterra
132	Dissipation energy and satisfaction rate for a two-lane traffic model with two types of vehicles	2020	A. Laarej, A. Karakhi, A. Khalouk, N. Lakouari, H. Ez-Zahraouy	Chinese Journal of Physics	https://doi.org/10.1016/j.cjph.2020.05.024	Internacional	Países Bajos
133	From Neighbors to Strengths - The k-Strongest Strengths (k-SS) classification algorithm	2020	Juan Aguilera, Luis C González, Manuel Montes-y-Gómez, Roberto López, Hugo J Escalante	Pattern Recognition Letters	https://doi.org/10.1016/j.patrec.2020.06.020	Internacional	Países Bajos
134	Gated multimodal networks	2020	John Arevalo, Thamar Solorio, Manuel Montes-y-Gómez & Fabio A. González	Neural Computing and Applications	https://doi.org/10.1007/s00521-019-04559-1	Internacional	Inglaterra
135	Guest Editorial: Image and Video inpainting and Denoising	2020	Sergio Escalera, Hugo Jair Escalante, Xavier Baro, Isabelle Guyon, Meysam Maddadi, Jun Wan, Stéphane Ayache, Yagmur G uccluturk, and Ulmut Guclu	IEEE Transactions on Pattern Analysis and Machine Intelligence	https://doi.org/10.1109/TPAMI.2020.2971291	Internacional	Estados Unidos
136	IESC-Child: An Interactive Emotional Children's Speech Corpus	2020	Humberto Pérez-Espinosa, Juan Martínez-Miranda, Ismael Espinosa-Curiel, Josefina Rodríguez-Jacobo, Luis Villaseñor-Pineda, Himer Avila-George	Computer Speech & Language	https://doi.org/10.1016/j.csl.2019.06.006	Internacional	Inglaterra
137	Learning rules for Sugeno ANFIS with parametric conjunction operations	2020	Prometeo Cortés-Antonio, Ildar Batyshin, Alfonso Martínez-Cruz, Luis A. Villa-Vargas, Marco A. Ramírez-Salinas, Imre Rudas, Oscar Castillo, Herón Molina-Lazano	Applied Soft Computing	https://doi.org/10.1016/j.asoc.2020.106095	Internacional	Países Bajos
138	Masking domain-specific information for cross-domain deception detection	2020	Javier Sánchez-Junquera, Luis Villaseñor-Pineda, Manuel Montes-y-Gómez, Paolo Rosso, Efsthathios Stamatatos	Pattern Recognition Letters	https://doi.org/10.1016/j.patrec.2020.04.020	Internacional	Países Bajos
139	Modeling and simulation of CO2 emissions in roundabout intersection	2020	N Lakouari, O Dubram, A Bassam, Saul E Pomares Hernandez, R Marzoug, H Ez-Zahraou	Journal of Computational Science	https://doi.org/10.1016/j.jocs.2019.101072	Internacional	Países Bajos



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140	Modeling, Recognizing, and Explaining Apparent Personality from Videos	2020	Hugo Jair Escalante, Heysem Kaya, Albert Ali Salah, Sergio Escalera, Yagmur Guclu Turk, Umut Guclu, Xavier Bara, Isabelle Guyon, Julio C. S. Jacques Junior, Meysam Madadi, Stephane Ayache, Evelyne Viegas, Furkan Gulpinar, Achmadnoer Sukma Wicaksana, Cynthia C. S. Liem, Marcel A. J. van Gerven, Rob van Lies	IEEE Transactions on Affective Computing	https://doi.ieeecomputersociety.org/10.1109	Internacional	Estados Unidos
141	On the Design of Hardware Architectures for Parallel Frequent Itemsets Mining	2020	Martín Letras, Lázaro Bustio-Martínez, René Cumplido, Raudel Hernández-León, Claudia Feregrino-Uribe	Expert Systems with Applications	https://doi.org/10.1016/j.eswa.2020.113440	Internacional	Estados Unidos
142	Onboard plane-wise 3D mapping using super-pixels and stereo vision for autonomous flight of a hexacopter	2020	Jose-Pablo Sanchez-Rodriguez, Alejandro Aceves-Lopez, Jose Martinez-Carranza, Gabriel Flores-Wysocka	Intelligent Service Robotics	https://doi.org/10.1007/s11370-020-00312-z	Internacional	Alemania
143	Online Training for Franchises through a Learning Management System	2020	Blanca Cecilia López Ramírez, Alfonso Martínez Cruz, Lizeth Flores Quevedo	Computación y Sistemas	DOI: 10.13053/CyS-24-1-3328	Internacional	México
144	Parallel hashing-based matching for real-time aerial image mosaicing	2020	Roberto de Lima, Aldrich A Cabrera-Ponce, Jose Martinez-Carranza	Journal of Real-Time Image Processing	https://doi.org/10.1007/s11554-020-00959-y	Internacional	Alemania
145	Planning Under Uncertainty Applications in Power Plants Using Factored Markov Decision Processes	2020	Alberto Reyes, L Enrique Sucar, Pablo H Ibarquengoytia, Eduardo F Morales	Energies	https://doi.org/10.3390/en13092302	Internacional	Suiza
146	Recognition of facial expressions based on CNN features	2020	Sonia M. González-Lazoya, Jorge de la Calleja, Luis Pellegrin, Hugo Jair Escalante, Ma. Auxilio Medina & Antonio Benítez-Ruiz	Multimedia Tools and Applications	https://doi.org/10.1007/s11042-020-08681-4	Internacional	Países Bajos
147	Richer Document Embeddings for Author Profiling tasks based on a heuristic search	2020	Roberto López-Santillán, Manuel Montes-y-Gómez, Luis Carlos González-Gurrola, Graciela Ramírez-Alonso, Olanda Prieto-Ordaza	Information Processing & Management	https://doi.org/10.1016/j.ipm.2020.102227	Internacional	Inglaterra
148	Structure extraction in urbanized aerial images from a single view using a CNN-based approach	2020	J. A. de Jesús Osuna-Coutiño & José Martínez-Carranza	International Journal of Remote Sensing	https://doi.org/10.1080/01431161.2020.176782	Internacional	Inglaterra
149	Supervised learning of the next-best-view for 3d object reconstruction	2020	Miguel Mendoza, J Irving Vasquez-Gomez, Hind Taud, L Enrique Sucar, Carolina Reta	Pattern Recognition Letters	https://doi.org/10.1016/j.patrec.2020.02.024	Internacional	Países Bajos
150	The Effect of Speed Humps on Instantaneous Traffic Emissions	2020	Julio César Pérez-Sansalvador, Noureddine Lakouari, Jesus Garcia-Diaz, Saúl E Pomares Hernández	Applied Sciences	https://doi.org/10.3390/app10051592	Internacional	Suiza
151	Towards a Semantic of Intentional Silence in Omissive Implicature	2020	Garcés-Báez, Alfonso, and Aurelio López-López	Digitale Welt	https://doi.org/10.1007/s42354-019-0237-0	Internacional	Alemania
152	Towards Causal Consistent Updates in Software-Defined Networks	2020	Amine Guidara, Saúl E Pomares Hernández, Lil María X Rodríguez Henríquez, Hatem Hadj Kacem, Ahmed Hadj Kacem	Applied Sciences	https://doi.org/10.3390/app10062081	Internacional	Suiza
153	Unobtrusive Stress Assessment Using Smartphones	2020	Alban Maxhuni, Pablo Hernandez-Leal, Eduardo F. Morales, Enrique Sucar, Venet Osmani, Oscar Mayora	IEEE Transactions on Mobile Computing	DOI:10.1109/TMC.2020.2974834	Internacional	Estados Unidos