

# Mercedes Fernández-Alonso

## List of Publications by Year in descending order

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64  
papers

2,069  
citations

270111

25  
h-index

263392

45  
g-index

65  
all docs

65  
docs citations

65  
times ranked

1732  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonlinear Optics to Glucose Sensing: Multifunctional Nitrogen and Boron Doped Carbon Dots with Solid-State Fluorescence in Nanoporous Silica Films. Particle and Particle Systems Characterization, 2020, 37, 2000093.	1.2	15
2	Antibacterial Properties of Nanoparticles in Dental Restorative Materials. A Systematic Review and Meta-Analysis. Medicina (Lithuania), 2020, 56, 55.	0.8	39
3	Overcoming the barrier of nanoparticle production by femtosecond laser ablation in liquids using simultaneous spatial and temporal focusing. Photonics Research, 2019, 7, 1249.	3.4	25
4	Fluorescence cell imaging using carbon quantum dots generated by continuous fragmentation. , 2019, , .		0
5	Fabrication by Laser Irradiation in a Continuous Flow Jet of Carbon Quantum Dots for Fluorescence Imaging. ACS Omega, 2018, 3, 2735-2742.	1.6	93
6	Microstructured light control with phase-only spatial light modulators: From calibration to phase and amplitude encoding. , 2017, , .		0
7	INTRODUCING MOBILE APPS IN PHYSICS LABS: DETERMINING MOMENTS OF INERTIA WITH A CELL PHONE. INTED Proceedings, 2017, , .	0.0	0
8	Diffraction-Based Phase Calibration of Spatial Light Modulators With Binary Phase Fresnel Lenses. Journal of Display Technology, 2016, 12, 1027-1032.	1.3	25
9	Dual collection mode optical microscope with single-pixel detection. , 2015, , .		0
10	Dual collection mode optical microscope with single-pixel detection. Proceedings of SPIE, 2015, , .	0.8	0
11	Learning to teach optics through experiments and demonstrations. , 2014, , .		0
12	Single-pixel polarimetric imaging spectrometer by compressive sensing. Applied Physics B: Lasers and Optics, 2013, 113, 551-558.	1.1	87
13	Devil's vortex-lens arrays generating 3D optical vortex structures. Proceedings of SPIE, 2013, , .	0.8	0
14	Generation of programmable 3D optical vortex structures through devil's vortex-lens arrays. Applied Optics, 2013, 52, 5822.	0.9	19
15	Single-pixel polarimetric imaging. Optics Letters, 2012, 37, 824.	1.7	63
16	Diffraction optics for processing ultrashort light pulses. , 2011, , .		0
17	Spatial-chirp compensation in dynamical holograms reconstructed with ultrafast lasers. Applied Physics Letters, 2009, 94, 011104.	1.5	19
18	Optical filters with fractal transmission spectra based on diffractive optics. Optics Letters, 2009, 34, 560.	1.7	15

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19	Fractal generalized zone plates. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2009, 26, 1161.	0.8	16
20	Experimental generation of high-contrast Talbot images with an ultrashort laser pulse. <i>Optics Communications</i> , 2008, 281, 374-379.	1.0	3
21	Limits for the Generation of Ultra-Wideband Signals with the Incoherent-Pulse-Shaping Technique. , 2007, , .		0
22	Optimization of the phase-modulation response of a TNLCD by means of a method based on Poincare sphere. , 2007, , .		0
23	Dispersion-compensated beam-splitting of femtosecond light pulses: Wave optics analysis. <i>Optics Express</i> , 2007, 15, 278.	1.7	36
24	On-axis diffraction of an ultrashort light pulse by circularly symmetric hard apertures. <i>Optics Express</i> , 2007, 15, 4546.	1.7	15
25	Phase-only modulation with a twisted nematic liquid crystal display by means of equi-azimuth polarization states. <i>Optics Express</i> , 2006, 14, 5607.	1.7	29
26	Millimeter-wave and microwave signal generation by low-bandwidth electro-optic phase modulation. <i>Optics Express</i> , 2006, 14, 9617.	1.7	13
27	Chromatic compensation in the near-field region: shape and size tunability. <i>Applied Optics</i> , 2005, 44, 6933.	2.1	0
28	Scale-tunable optical correlation with natural light. <i>Applied Optics</i> , 2001, 40, 5911.	2.1	6
29	Quasi-wavelength-independent broadband optical Fourier transformer. <i>Optics Communications</i> , 1999, 172, 153-160.	1.0	15
30	<title>Wavelength-compensated broadband Fourier transformer</title>. , 1999, 3749, 562.		0
31	Phase-change visualization in two-dimensional phase objects with a semiderivative real filter. <i>Applied Optics</i> , 1998, 37, 5472.	2.1	17
32	Achromatic Fourier transforming properties of a separated diffractive lens doublet: theory and experiment. <i>Applied Optics</i> , 1998, 37, 6164.	2.1	26
33	Fractional derivative Fourier plane filter for phase-change visualization. <i>Applied Optics</i> , 1997, 36, 7461.	2.1	27
34	<title>Achromatic Fourier processor: a novel optical architecture</title>. , 1996, 2730, 46.		0
35	A measurement of the tau lifetime. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1993, 302, 356-368.	1.5	17
36	A measurement of the mean lifetimes of charged and neutral B-hadrons. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1993, 312, 253-266.	1.5	15

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37	Measurement of $\hat{b}\hat{b}$ production and lifetime in Z0 hadronic decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 311, 379-390.	1.5	26
38	A study of $B\hat{0}$ mixing using semileptonic decays of B hadrons produced from Z0. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 301, 145-154.	1.5	16
39	Measurement of inclusive production of light meson resonances in hadronic decays of the Z0. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 298, 236-246.	1.5	29
40	Measurement of the triple-gluon vertex from 4-jet events at LEP. Zeitschrift für Physik C-Particles and Fields, 1993, 59, 357-368.	1.5	34
41	Search for Z0 decays to two leptons and a charged particle-antiparticle pair. Nuclear Physics B, 1993, 403, 3-24.	0.9	7
42	Multiplicity dependence of mean transverse momentum in $e+e\hat{0}$ annihilations at LEP energies. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 276, 254-262.	1.5	6
43	A search for neutral Higgs particles in Z0 decays. Nuclear Physics B, 1992, 373, 3-34.	0.9	38
44	Multiplicity fluctuations in hadronic final states from the decay of the Z0. Nuclear Physics B, 1992, 386, 471-492.	0.9	23
45	Evidence for $B_{S0}$ meson production in Z0 decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 289, 199-210.	1.5	38
46	Measurement of the partial width of the Z0 into $b\hat{0}b\hat{0}$ final states using their semi-leptonic decays. Zeitschrift für Physik C-Particles and Fields, 1992, 56, 47-61.	1.5	22
47	Searches for heavy neutrinos from Z decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 274, 230-238.	1.5	22
48	Search for scalar leptoquarks from Z0 decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 275, 222-230.	1.5	22
49	Study of orientation of three-jet events in Z0 hadronic decays using the DELPHI detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 274, 498-506.	1.5	13
50	Classification of the hadronic decays of the Z0 into b and c quark pairs using a neural network. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 295, 383-395.	1.5	36
51	Determination of Z0 resonance parameters and couplings from its hadronic and leptonic decays. Nuclear Physics B, 1991, 367, 511-574.	0.9	65
52	The DELPHI detector at LEP. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1991, 303, 233-276.	0.7	398
53	Charged particle multiplicity distributions in restricted rapidity intervals in Z0 hadronic decays. Zeitschrift für Physik C-Particles and Fields, 1991, 52, 271-281.	1.5	52
54	The reaction $e+e\hat{0} \rightarrow \hat{0}^+ \hat{0}^0(\hat{0}^0)$ at Z0 energies. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 268, 296-304.	1.5	32

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55	A measurement of the lifetime of the tau lepton. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 267, 422-430.	1.5	17
56	A study of the reaction $e^+e^- \rightarrow \tau^+ \tau^- \frac{1}{4} + \frac{1}{4}$ around the Z0 pole. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 260, 240-248.	1.5	9
57	Search for pair production of neutral Higgs bosons in Z0 decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 245, 276-288.	1.5	47
58	Study of hadronic decays of the Z0 boson. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 240, 271-282.	1.5	90
59	Study of the leptonic decays of the Z0 boson. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 241, 425-434.	1.5	30
60	A precise measurement of the Z resonance parameters through its hadronic decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 241, 435-448.	1.5	56
61	Search for heavy charged scalars in Z0 decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 241, 449-458.	1.5	38
62	Search for the t and b' quarks in hadronic decays of the Z0 boson. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 242, 536-546.	1.5	18
63	Search for light neutral Higgs particles produced in Z0-decays. Nuclear Physics B, 1990, 342, 1-14.	0.9	50
64	Measurement of the mass and width of the Z0-particle from multihadronic final states produced in $e^+e^-$ annihilations. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1989, 231, 539-547.	1.5	200