Pedro J Valle

List of Publications by Year
in descending order

56	529	623734	713466
papers	citations	14 h-index	21 g-index

56	56	56	296
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Focusing properties of annular binary phase filters. Optics Communications, 2004, 229, 71-77.	2.1	61
2	Analytical design of superresolving phase filters. Optics Communications, 2004, 241, 249-253.	2.1	45
3	Visual axial PSF of diffractive trifocal lenses. Optics Express, 2005, 13, 2782.	3.4	28
4	Experimental study of copolarized light scattering by spherical metallic particles on conducting flat substrates. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1993, 10, 141.	1.5	26
5	Optical contrast, topographic contrast and artifacts in illumination-mode scanning near-field optical microscopy. Journal of Applied Physics, 1999, 86, 648-656.	2.5	25
6	Near-field scattering from subwavelength metallic protuberances on conducting flat substrates. Physical Review B, 1995, 51, 13681-13690.	3.2	24
7	Backscattering from particulate surfaces: experiment and theoretical modeling. Optical Engineering, 1994, 33, 1261.	1.0	23
8	Metallic particle sizing on flat surfaces: Application to conducting substrates. Applied Physics Letters, 1996, 68, 3087-3089.	3.3	21
9	Analytic design of multiple-axis, multifocal diffractive lenses. Optics Letters, 2012, 37, 1121.	3.3	21
10	Scattering by a metallic cylinder on a substrate: burying effects. Optics Letters, 1996, 21, 1330.	3.3	20
11	Electromagnetic interaction between two parallel circular cylinders on a planar interface. IEEE Transactions on Antennas and Propagation, 1996, 44, 321-325.	5.1	20
12	Near field by subwavelength particles on metallic substrates with cylindrical surface plasmon excitation. Optics Communications, 1997, 137, 334-342.	2.1	18
13	Multiple scattering in particulate surfaces: Cross-polarization ratios and shadowing effects. Optics Communications, 1997, 137, 359-366.	2.1	17
14	Super-Gaussian apodization in ground based telescopes for high contrast coronagraph imaging. Optics Express, 2013, 21, 12744.	3.4	15
15	Comparison of real- and perfect-conductor approaches for scattering by a cylinder on a flat substrate. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1998, 15, 158.	1.5	14
16	Application of a ray-tracing model to the study of back scattering from surfaces with particles. Journal Physics D: Applied Physics, 1995, 28, 1040-1046.	2.8	11
17	Scattering from particulate metallic surfaces: effect of surface particle density. Optical Engineering, 1995, 34, 1200.	1.0	11
18	On the multiple scattering effects for small metallic particles on flat conducting substrates. Waves in Random and Complex Media, 1995, 5, 73-88.	1.5	11

#	Article	IF	Citations
19	Tracking Scattering Minima to Size Metallic Particles on Flat Substrates. Particle and Particle Systems Characterization, 1999, 16, 113-118.	2.3	9
20	Scattering from particles on surfaces:?visibility factor and polydispersity. Optics Letters, 1999, 24, 1451.	3.3	9
21	Multiple coaxial foci generation by phase-only pupil filters. Optics Communications, 2007, 272, 325-329.	2.1	9
22	Pupil apodization for increasing data storage density. Chinese Optics Letters, 2009, 7, 720-723.	2.9	8
23	Wavefront sensing using diffractive elements. Optics Letters, 2012, 37, 3813.	3.3	8
24	Application of a Laplace transform method to binary mixtures of spherical particles in solution for low scattered intensity. Journal Physics D: Applied Physics, 1992, 25, 357-361.	2.8	7
25	Variable resolution with pupil masks. Optics Communications, 2006, 257, 247-254.	2.1	7
26	Focal modulation using rotating phase filters. Optics Express, 2010, 18, 7820.	3.4	7
27	Contrast mechanisms in illumination-mode SNOM. Ultramicroscopy, 1998, 71, 39-48.	1.9	5
28	A detailed study of the scattered near field of nanoprotuberances on flat surfaces. Journal Physics D: Applied Physics, 1998, 31, 3009-3019.	2.8	5
29	Light scattering computational methods for particles on substrates. Journal of Quantitative Spectroscopy and Radiative Transfer, 2001, 70, 383-393.	2.3	5
30	Covariance of lucky images for increasing objects contrast: diffraction-limited images in ground-based telescopes. Monthly Notices of the Royal Astronomical Society, 2016, 455, 2765-2771.	4.4	5
31	Coronagraphic mask design using Hermite functions. Optics Express, 2009, 17, 20515.	3.4	4
32	xâ€“y curvature wavefront sensor. Optics Letters, 2015, 40, 1655.	3.3	4
33	Covariance of lucky images: performance analysis. Monthly Notices of the Royal Astronomical Society, 2017, 464, 680-687.	4.4	4
34	Quaternary adaptive optics. Optics Express, 2019, 27, 24524.	3.4	4
35	Digital coronagraph algorithm. OSA Continuum, 2018, 1, 625.	1.8	4
36	Experimental validation of Lyot stop apodization in ground-based coronagraphy. Monthly Notices of the Royal Astronomical Society, 2015, 446, 627-632.	4.4	3

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37	Reduction of the diffraction pattern in segmented apertures. Optical Engineering, 2006, 45, 098001.	1.0	2
38	Diffractive optical elements to improve the quality of aberrated images. Journal of Optics (United) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	2.2	2
39	Optical-component-only adaptive optics. Optics Letters, 2021, 46, 3452.	3.3	2
40	Signal-to-noise ratio improvement by measuring the moment generating function of the number of photopulses for low intensity periodical signals. Journal of Optics, 1992, 1, 281-288.	0.5	1
41	Wavefront sensing by optical differentiation. , 2005, , .		1
42	Coronagraphs adapted to atmosphere conditions. Optics Express, 2012, 20, 4574.	3.4	1
43	Amplitude image processing by diffractive optics. Optics Express, 2016, 24, 3268.	3.4	1
44	Digital coronography: application to space telescope images. OSA Continuum, 2019, 2, 2038.	1.8	1
45	Study of birefringent-type tuning devices through 4X4 matrix algebra. , 1990, 1319, 43.		0
46	Simple experimental technique for measuring lifetimes of low-intensity monoexponential fluorescence signals. , 1992, 1603, 504.		0
47	Experimental Study of Periodically Modulated Light Beams by Measuring the Moment Generating Function of the Number of photopulses. Spectroscopy Letters, 1993, 26, 733-744.	1.0	0
48	Enhanced backscatter from monodisperse contaminants on a substrate. Journal of Quantitative Spectroscopy and Radiative Transfer, 1999, 63, 383-392.	2.3	0
49	<title>Application of a double interaction model to the backscattering peak observed for polydisperse particulate samples</title>. , 1999, , .		0
50	<title>Visibility factor for low-particle-size polydispersity</title>. , 1999, , .		0
51	Teaching optics with a spatial light modulator. , 2002, 4588, 568.		0
52	Pyramidal wavefront sensor using diffractive lenses. , 2012, , .		0
53	Planetary system detection by estimating the covariance of coronagraphic lucky images. Monthly Notices of the Royal Astronomical Society, 2019, 488, 3262-3267.	4.4	0
54	Improving resolution in large telescopes. SPIE Newsroom, 2006, , .	0.1	0

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55	Analysis of Strehl ratio limit with superresolution binary phase filters. Chinese Optics Letters, 2016, 14, 071101-71104.	2.9	0
56	Lucky imaging speckle statistics applied to halo suppression. Monthly Notices of the Royal Astronomical Society, 2022, 512, 2402-2407.	4.4	0