Eva M Valero

List of Publications by Year
in descending order

51 papers	532 citations	686830 13 h-index	713013 21 g-index
52 all docs	52 docs citations	52 times ranked	409 citing authors

#	Article	IF	Citations
1	Recovering spectral data from natural scenes with an RGB digital camera and colored filters. Color Research and Application, 2007, 32, 352-360.	0.8	57
2	Selecting algorithms, sensors, and linear bases for optimum spectral recovery of skylight. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2007, 24, 942.	0.8	48
3	Multispectral synthesis of daylight using a commercial digital CCD camera. Applied Optics, 2005, 44, 5696.	2.1	43
4	Do EnChroma glasses improve color vision for colorblind subjects?. Optics Express, 2018, 26, 28693.	1.7	40
5	Spectral-daylight recovery by use of only a few sensors. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2004, 21, 13.	0.8	29
6	Recovering fluorescent spectra with an RGB digital camera and color filters using different matrix factorizations. Applied Optics, 2007, 46, 4144.	2.1	23
7	Combining transverse field detectors and color filter arrays to improve multispectral imaging systems. Applied Optics, 2014, 53, C14.	0.9	23
8	Outdoor scene reflectance measurements using a Bragg-grating-based hyperspectral imager. Applied Optics, 2015, 54, D15.	2.1	23
9	Assessment of VINO filters for correcting red-green Color Vision Deficiency. Optics Express, 2019, 27, 17954.	1.7	22
10	Comparative performance analysis of spectral estimation algorithms and computational optimization of a multispectral imaging system for print inspection. Color Research and Application, 2014, 39, 16-27.	0.8	20
11	Adaptive exposure estimation for high dynamic range imaging applied to natural scenes and daylight skies. Applied Optics, 2015, 54, B241.	0.9	17
12	Image processing pipeline for segmentation and material classification based on multispectral high dynamic range polarimetric images. Optics Express, 2017, 25, 30073.	1.7	16
13	Multifocus HDR VIS/NIR hyperspectral imaging and its application to works of art. Optics Express, 2019, 27, 11323.	1.7	15
14	Adaptive global training set selection for spectral estimation of printed inks using reflectance modeling. Applied Optics, 2014, 53, 709.	0.9	14
15	Evaluating logarithmic kernel for spectral reflectance estimationâ€"effects on model parametrization, training set size, and number of sensor spectral channels. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2014, 31, 541.	0.8	12
16	Measurement of the optical transfer function using a white-dot pattern presented on a liquid-crystal display. Journal of the European Optical Society-Rapid Publications, 0, 8, .	0.9	11
17	Unsupervised illuminant estimation from natural scenes: an RGB digital camera suffices. Applied Optics, 2008, 47, 3574.	2.1	9
18	Evaluation of Cleaning Processes Using Colorimetric and Spectral Data for the Removal of Layers of Limewash from Medieval Plasterwork. Sensors, 2020, 20, 7147.	2.1	9

#	Article	IF	Citations
19	Spectral Filter Selection for Increasing Chromatic Diversity in CVD Subjects. Sensors, 2020, 20, 2023.	2.1	9
20	Color-signal filtering in the Fourier-frequency domain. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2003, 20, 1714.	0.8	8
21	Nonrigid registration with free-form deformation model of multilevel uniform cubic B-splines: application to image registration and distortion correction of spectral image cubes. Applied Optics, 2014, 53, 3764.	0.9	8
22	Spectral-reflectance linear models for optical color-pattern recognition. Applied Optics, 2004, 43, 1880.	2.1	7
23	A simple experiment to distinguish between replicated and duplicated compact discs using Fraunhofer diffraction. American Journal of Physics, 2008, 76, 1137-1140.	0.3	6
24	Detailed experimental characterization of reflectance spectra ofSasakia charondabutterfly using multispectral optical imaging. Optical Engineering, 2014, 53, 033111.	0.5	6
25	Stochastic independence of color-vision mechanisms confirmed by a subthreshold summation paradigm. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2000, 17, 1485.	0.8	5
26	Single Image Dehazing Algorithm Analysis with Hyperspectral Images in the Visible Range. Sensors, 2020, 20, 6690.	2.1	5
27	Spectral sensitivity of sensors for a color-image descriptor invariant to changes in daylight conditions. Color Research and Application, 2006, 31, 391-398.	0.8	4
28	Trichromatic red-green-blue camera used for the recovery of albedo and reflectance of rough-textured surfaces under different illumination conditions. Applied Optics, 2009, 48, 3643.	2.1	4
29	Improving unsupervised saliency detection by migrating from RGB to multispectral images. Color Research and Application, 2019, 44, 875-885.	0.8	4
30	Spectral information to get beyond color in the analysis of water-soluble varnish degradation. Heritage Science, 2019, 7, .	1.0	4
31	Eight-Channel Multispectral Image Database for Saliency Prediction. Sensors, 2021, 21, 970.	2.1	4
32	Measurements of the spectral modulation sensitivity function for two normal observers with CRT monitors. Journal of Optics, 1997, 28, 190-198.	0.3	3
33	Study of colour discrimination with comb-filtered spectra. Vision Research, 2001, 41, 541-548.	0.7	3
34	Changes in contrast thresholds with mean luminance for chromatic and luminance gratings: A reexamination of the transition from the DeVries-Rose to Weber regions. Color Research and Application, 2004, 29, 177-182.	0.8	3
35	Colorimetric and spectral data analysis of consolidants used for preservation of medieval plasterwork. Journal of Cultural Heritage, 2020, 42, 64-71.	1.5	3
36	Metasurface-based contact lenses for color vision deficiency: comment. Optics Letters, 2020, 45, 5117.	1.7	3

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37	Measurements of sensitivity to simulated chromatic frequencies for normal and dichromatic observers. Journal of Optics, 1998, 29, 339-344.	0.3	2
38	Fizeau fringes at home. American Journal of Physics, 2002, 70, 684-688.	0.3	2
39	Is it really possible to compensate for colour blindness with a filter?. Coloration Technology, 2021, 137, 64-67.	0.7	2
40	Band Selection for Dehazing Algorithms Applied to Hyperspectral Images in the Visible Range. Sensors, 2021, 21, 5935.	2.1	2
41	Color vision deficiencies and camouflage: a comparative study between normal and CVD observers. Optics Express, 2022, 30, 13699.	1.7	2
42	Modified fuzzy c-means applied to a Bragg grating-based spectral imager for material clustering. , 2012, , .		1
43	Improved Spectral Density Measurement from Estimated Reflectance Data with Kernel Ridge Regression. Lecture Notes in Computer Science, 2014, , 79-86.	1.0	1
44	Colour Appearance of Surfaces as Affected by Different Time-Varying Colour-Adaptation Sequences. Optical Review, 2003, 10, 221-230.	1.2	0
45	From color to spectral information: A round-trip ticket. , 2011, , .		0
46	Photometric-based recovery of illuminant-free color images using a red-green-blue digital camera. Optical Engineering, 2012, 51, 013201.	0.5	0
47	Multispectral imaging approach for simplified non-invasive in-vivo evaluation of gingival erythema. , 2012, , .		0
48	Framework proposal for high-resolution spectral image acquisition of effect-coatings. Measurement: Journal of the International Measurement Confederation, 2019, 145, 379-390.	2.5	0
49	Characterization of the evolution of indigo blue by multispectral imaging. Color Research and Application, 0, , .	0.8	0
50	â€œPor los grados la tierra demarcandoâ€• una relectura de la geografÃa poÃ©tica de "La Araucana". Rilce, 2019, 36, 109-133.	0.1	0
51	La capital virreinal en La Perricholi. Reina de Lima de Alonso Cueto: historia y literatura, literatura y ciudad. Anuario De Estudios Americanos, 2020, 77, 699-730.	0.1	0