

Manuel Melgosa

List of Publications by Year in descending order

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94
papers

2,091
citations

236612

25
h-index

264894

42
g-index

95
all docs

95
docs citations

95
times ranked

1278
citing authors

#	ARTICLE	IF	CITATIONS
1	Note. Visual and Instrumental Color Evaluation in Red Wines. Food Science and Technology International, 2001, 7, 439-444.	1.1	222
2	Measurement of the relationship between perceived and computed color differences. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2007, 24, 1823.	0.8	174
3	Comprehensive color solutions: CAM16, CAT16, and CAM16â€œUCS. Color Research and Application, 2017, 42, 703-718.	0.8	153
4	Suprathreshold color-difference ellipsoids for surface colors. Color Research and Application, 1997, 22, 148-155.	0.8	92
5	Performance of recent advanced color-difference formulas using the standardized residual sum of squares index. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2008, 25, 1828.	0.8	73
6	Note. Visual and Instrumental Color Evaluation in Red Wines. Food Science and Technology International, 2001, 7, 439-444.	1.1	71
7	Testing CIELAB-based color-difference formulas. Color Research and Application, 2000, 25, 49-55.	0.8	70
8	Notes on the application of the standardized residual sum of squares index for the assessment of intra- and inter-observer variability in color-difference experiments. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2011, 28, 949.	0.8	54
9	Quantifying the effects of aggregation, particle size and components on the colour of Mediterranean soils. European Journal of Soil Science, 2004, 55, 551-565.	1.8	51
10	Relationships between chemico-mineralogical composition and color properties in selected natural and calcined Spanish kaolins. Applied Clay Science, 2005, 28, 269-282.	2.6	51
11	Euclidean color-difference formula for small-medium color differences in log-compressed OSA-UCS space. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2009, 26, 121.	0.8	46
12	Color-difference evaluation for digital images using a categorical judgment method. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2013, 30, 616.	0.8	42
13	Relative significance of the terms in the CIEDE2000 and CIE94 color-difference formulas. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2004, 21, 2269.	0.8	39
14	Influence of random-dot textures on perception of suprathreshold color differences. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2006, 23, 2067.	0.8	36
15	Performance of a color-difference formula based on OSA-UCS space using small-medium color differences. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2006, 23, 2077.	0.8	36
16	Are we able to distinguish color attributes?. Color Research and Application, 2000, 25, 356-367.	0.8	35
17	Influence of Natural Daylight on Soil Color Description: Assessment Using a Color-Appearance Model. Soil Science Society of America Journal, 2011, 75, 984-993.	1.2	35
18	Evaluation of threshold color differences using printed samples. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2012, 29, 883.	0.8	35

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19	Power functions improving the performance of color-difference formulas. Optics Express, 2015, 23, 597.	1.7	33
20	CIELAB COLOR PARAMETERS AND THEIR RELATIONSHIP TO SOIL CHARACTERISTICS IN MEDITERRANEAN RED SOILS. Soil Science, 1997, 162, 833-842.	0.9	33
21	Characterization of the human iris spectral reflectance with a multispectral imaging system. Applied Optics, 2008, 47, 5622.	2.1	31
22	Measuring color differences in automotive samples with lightness flop: A test of the AUDI2000 color-difference formula. Optics Express, 2014, 22, 3458.	1.7	28
23	Optimization of bleaching conditions for sardine oil. Journal of Food Engineering, 2013, 116, 606-612.	2.7	26
24	Some classical color differences calculated with new formulas. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1992, 9, 1247.	0.8	25
25	Uniformity of some recent color metrics tested with an accurate color-difference tolerance dataset. Applied Optics, 1994, 33, 8069.	2.1	25
26	Request for existing experimental datasets on color differences. Color Research and Application, 2007, 32, 159-159.	0.8	25
27	Color discrimination results from a CRT device: Influence of luminance. Color Research and Application, 1999, 24, 38-44.	0.8	24
28	Effect of luminance of samples on color discrimination ellipses: Analysis and prediction of data. Color Research and Application, 2005, 30, 186-197.	0.8	22
29	Sensitivity differences in Chroma, Hue, and Lightness from several classical threshold datasets. Color Research and Application, 1995, 20, 220-225.	0.8	21
30	Color variability for a wine sample poured into a standard glass wine sampler. Color Research and Application, 2003, 28, 473-479.	0.8	20
31	Measuring the colour of virgin olive oils in a new colour scale using a low-cost portable electronic device. Journal of Food Engineering, 2012, 111, 247-254.	2.7	20
32	SPECTRORADIOMETRIC AND VISUAL COLOR MEASUREMENTS OF DISTURBED AND UNDISTURBED SOIL SAMPLES. Soil Science, 1995, 160, 291-303.	0.9	19
33	Whiteness of talcum powders as a quality index for pharmaceutical uses. Color Research and Application, 1998, 23, 178-185.	0.8	19
34	Are chroma tolerances dependent on hue-angle?. Color Research and Application, 2004, 29, 420-427.	0.8	18
35	Fuzzy analysis for detection of inconsistent data in experimental datasets employed at the development of the CIEDE2000 colour-difference formula. Journal of Modern Optics, 2009, 56, 1447-1456.	0.6	18
36	Reliability of the bromthymol blue method for color in virgin olive oils. JAOCS, Journal of the American Oil Chemists' Society, 1999, 76, 687-692.	0.8	17

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37	Comparing two-step and one-step chromatic adaptation transforms using the CAT16 model. <i>Color Research and Application</i> , 2018, 43, 633-642.	0.8	16
38	Revisiting the weighting function for lightness in the <sc>CIEDE</sc>2000 colour-difference formula. <i>Coloration Technology</i> , 2017, 133, 273-282.	0.7	14
39	Color inconstancy of natural teeth measured under white light-emitting diode illuminants. <i>Dental Materials</i> , 2020, 36, 1680-1690.	1.6	14
40	Influence of chemical and mineralogical composition on color for commercial talcs. <i>Color Research and Application</i> , 2002, 27, 430-440.	0.8	13
41	Colourimetric characterisation of disposable optical sensors from spectroradiometric measurements. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 393, 1361-1366.	1.9	13
42	Generalization of color-difference formulas for any illuminant and any observer by assuming perfect color constancy in a color-vision model based on the OSA-UCS system. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2011, 28, 2226.	0.8	13
43	What can we learn from a dress with ambiguous colors?. <i>Color Research and Application</i> , 2015, 40, 525-529.	0.8	13
44	Spectral Image Processing for Museum Lighting Using CIE LED Illuminants. <i>Sensors</i> , 2019, 19, 5400.	2.1	13
45	Color analysis and detection of Fe minerals in multi-mineral mixtures from acid-alteration environments. <i>Applied Clay Science</i> , 2020, 193, 105677.	2.6	13
46	Virgin Olive Oil Color in Relation to Sample Thickness and the Measurement Method. <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 2008, 85, 1063-1071.	0.8	12
47	Colour Difference Evaluation. , 2013, , 59-79.		12
48	Color harmony in two-piece garments. <i>Color Research and Application</i> , 2017, 42, 498-511.	0.8	10
49	Usefulness of cathode ray tube color displays in chromaticity-discrimination experiments. <i>Applied Optics</i> , 2000, 39, 4021.	2.1	9
50	Practical demonstration of the CIEDE2000 corrections to CIELAB using a small set of sample pairs. <i>Color Research and Application</i> , 2013, 38, 429-436.	0.8	9
51	Optimum solution of the <sc>CIECAM</sc>02 yellow-blue and purple problems. <i>Color Research and Application</i> , 2015, 40, 491-503.	0.8	9
52	Identification of iron in Earth analogues of Martian phyllosilicates using visible reflectance spectroscopy: Spectral derivatives and color parameters. <i>Applied Clay Science</i> , 2018, 165, 264-276.	2.6	9
53	Color evolution during a coating process of pharmaceutical tablet cores by random spraying. <i>Color Research and Application</i> , 2019, 44, 160-167.	0.8	9
54	Precision and accuracy in the color specification of virgin olive oils from the bromthymol blue method. <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 2000, 77, 1093-1100.	0.8	8

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55	Reproducibility of the bromthymol blue standards used for color specification of virgin olive oil. JAOCS, Journal of the American Oil Chemists' Society, 2001, 78, 265-270.	0.8	8
56	Color Measurements in Blue-tinted Cups for Virgin Olive Oil Tasting. JAOCS, Journal of the American Oil Chemists' Society, 2009, 86, 627-636.	0.8	8
57	Testing the accuracy of methods for the computation of CIE tristimulus values using weighting tables. Color Research and Application, 2016, 41, 125-142.	0.8	7
58	Method to determine the degrees of consistency in experimental datasets of perceptual color differences. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2016, 33, 2289.	0.8	6
59	Accurate Measurements of Spectral Reflectance in Picasso's <i>Guernica</i> Painting. Applied Spectroscopy, 2016, 70, 147-155.	1.2	6
60	Colour differences in Caucasian and Oriental women's faces illuminated by white light-emitting diode sources. International Journal of Cosmetic Science, 2018, 40, 244-255.	1.2	6
61	Colorimetric Evaluation of Pictorial Coatings in Conservation of Plasterworks from the Islamic Tradition. Studies in Conservation, 2019, 64, 90-100.	0.6	6
62	Color-difference evaluation for 3D objects. Optics Express, 2021, 29, 24237.	1.7	6
63	The weighting function for lightness in the CIE94 color-difference model. Color Research and Application, 1996, 21, 347-352.	0.8	5
64	Proposal of a uniform color scale for virgin olive oils. JAOCS, Journal of the American Oil Chemists' Society, 2004, 81, 323-330.	0.8	5
65	Is the Pharmacopoeia test a good estimator of the organic impurities in kaolin?. Applied Clay Science, 2011, 51, 431-437.	2.6	5
66	CAT02 and HPE triangles. Color Research and Application, 2015, 40, 30-39.	0.8	5
67	All Effects of Psychophysical Variables on Color Attributes: A Classification System. PLoS ONE, 2015, 10, e0119024.	1.1	5
68	Improved computation of the adaptation coefficient in the CIE system of mesopic photometry. Optics Express, 2017, 25, 18365.	1.7	5
69	Color of extra virgin olive oils enriched with carotenoids from microalgae: influence of ultraviolet exposure and heating. Grasas Y Aceites, 2022, 73, e455.	0.3	5
70	Optimizing Parametric Factors in CIELAB and CIEDE2000 Color-Difference Formulas for 3D-Printed Spherical Objects. Materials, 2022, 15, 4055.	1.3	5
71	On the relationship between tilt of a^*b^* tolerance ellipses in blue region and tritanopic confusion lines. Color Research and Application, 2002, 27, 180-184.	0.8	4
72	Interpolation, extrapolation, and truncation in computations of CIE tristimulus values. Color Research and Application, 2017, 42, 10-18.	0.8	4

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73	Further investigation on the modified hyperbolic function in the CAM16 color appearance model. <i>Color Research and Application</i> , 2019, 44, 359-366.	0.8	4
74	A note about the abnormal hue angle change in CIELAB space. <i>Color Research and Application</i> , 2013, 38, 322-327.	0.8	3
75	Color-quality control using color-difference formulas: progress and problems. , 2017, , .		3
76	Theoretical consideration on convergence of the fixed-point iteration method in CIE mesopic photometry system MES2. <i>Optics Express</i> , 2018, 26, 31351.	1.7	3
77	Performance of a Color Indicator in a Disinfecting Solution for the Maintenance of Soft Contact Lenses. <i>Optometry and Vision Science</i> , 1997, 74, 231-235.	0.6	2
78	Color coordinates of wine samples with different thicknesses. <i>Color Research and Application</i> , 2005, 30, 149-152.	0.8	2
79	Performance of two color scales for virgin olive oils: Influence of ripeness, variety, and harvest season. <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 2005, 82, 21-25.	0.8	2
80	Improvement of CMC upon CIEDE2000 for a new experimental dataset. <i>Color Research and Application</i> , 2006, 31, 239-241.	0.8	2
81	Modelling the orange-peel texture for chromatic and achromatic samples. <i>Progress in Organic Coatings</i> , 2019, 135, 148-155.	1.9	2
82	CIE94, History, Use, and Performance. , 2015, , 1-5.		2
83	Goniochromatic assessment of gray scales for color change. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2020, 37, 1266.	0.8	2
84	Skin color measurements before and after two weeks of sun exposure. <i>Vision Research</i> , 2022, 192, 107976.	0.7	2
85	Measuring color differences in gonioapparent materials used in the automotive industry. <i>Journal of Physics: Conference Series</i> , 2015, 605, 012006.	0.3	1
86	Evaluation of the influence of varnish on the color of Picasso's Woman in Blue. <i>Spectroscopy Letters</i> , 2020, 53, 140-151.	0.5	1
87	Revisiting the Optical Society of America Uniform Color Scales system: past, present and future challenges. <i>Coloration Technology</i> , 2021, 137, 33-37.	0.7	1
88	Transformations from cone responses to opponent color spaces. <i>Color Research and Application</i> , 0, , .	0.8	1
89	CIE94, History, Use, and Performance. , 2016, , 191-195.		1
90	Parametric effects on the evaluation of threshold chromaticity differences using red printed samples. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2019, 36, 510.	0.8	1

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91	Assessing the variability of colour rendering indices using a random test colour method. Coloration Technology, 2017, 133, 403-414.	0.7	0
92	Aplicación del valor de tono de color directo para el control cromático del proceso de recubrimiento de tabletas farmacéuticas. Tecnología En Marcha, 0, , .	0.1	0
93	Characterizing skin color before and after 100µm sprinting. Color Research and Application, 2021, 46, 1255.	0.8	0
94	Using Concept Maps to Develop a Didactic Explanation of a Dress with Ambiguous Colours. Communications in Computer and Information Science, 2016, , 303-314.	0.4	0