

# 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  | Skin color measurements before and after two weeks of sun exposure. <i>Vision Research</i> , 2022, 192, 107976.   | 0.7 | 2         |
| 2  | Color of extra virgin olive oils enriched with carotenoids from microalgae: influence of ultraviolet exposure and heating. <i>Grasas Y Aceites</i> , 2022, 73, e455.  | 0.3 | 5         |
| 3  | Optimizing Parametric Factors in CIELAB and CIEDE2000 Color-Difference Formulas for 3D-Printed Spherical Objects. <i>Materials</i> , 2022, 15, 4055.  | 1.3 | 5         |
| 4  | 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         |
| 5  | Characterizing skin color before and after 100nm sprinting. <i>Color Research and Application</i> , 2021, 46, 1255.   | 0.8 | 0         |
| 6  | Color-difference evaluation for 3D objects. <i>Optics Express</i> , 2021, 29, 24237.  | 1.7 | 6         |
| 7  | Color inconstancy of natural teeth measured under white light-emitting diode illuminants. <i>Dental Materials</i> , 2020, 36, 1680-1690.  | 1.6 | 14        |
| 8  | 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         |
| 9  | 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        |
| 10 | 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         |
| 11 | Colorimetric Evaluation of Pictorial Coatings in Conservation of Plasterworks from the Islamic Tradition. <i>Studies in Conservation</i> , 2019, 64, 90-100.  | 0.6 | 6         |
| 12 | 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         |
| 13 | Modelling the orange-peel texture for chromatic and achromatic samples. <i>Progress in Organic Coatings</i> , 2019, 135, 148-155.   | 1.9 | 2         |
| 14 | Spectral Image Processing for Museum Lighting Using CIE LED Illuminants. <i>Sensors</i> , 2019, 19, 5400.   | 2.1 | 13        |
| 15 | 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         |
| 16 | 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         |
| 17 | Colour differences in Caucasian and Oriental women's faces illuminated by white light-emitting diode sources. <i>International Journal of Cosmetic Science</i> , 2018, 40, 244-255.                             | 1.2 | 6         |
| 18 | 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         |

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|----|---|-----|-----------|
| 19 | Comparing two-step and one-step chromatic adaptation transforms using the CAT16 model. Color Research and Application, 2018, 43, 633-642.   | 0.8 | 16        |
| 20 | Theoretical consideration on convergence of the fixed-point iteration method in CIE mesopic photometry system MES2. Optics Express, 2018, 26, 31351.  | 1.7 | 3         |
| 21 | Interpolation, extrapolation, and truncation in computations of CIE tristimulus values. Color Research and Application, 2017, 42, 10-18.  | 0.8 | 4         |
| 22 | Comprehensive color solutions: CAM16, CAT16, and CAM16-UCS. Color Research and Application, 2017, 42, 703-718.  | 0.8 | 153       |
| 23 | Assessing the variability of colour-rendering indices using a random test-colour method. Coloration Technology, 2017, 133, 403-414.   | 0.7 | 0         |
| 24 | Revisiting the weighting function for lightness in the <sc>CIEDE</sc>2000 colour-difference formula. Coloration Technology, 2017, 133, 273-282.   | 0.7 | 14        |
| 25 | Color harmony in two-piece garments. Color Research and Application, 2017, 42, 498-511.   | 0.8 | 10        |
| 26 | Improved computation of the adaptation coefficient in the CIE system of mesopic photometry. Optics Express, 2017, 25, 18365.  | 1.7 | 5         |
| 27 | Color-quality control using color-difference formulas: progress and problems. , 2017, , .   |     | 3         |
| 28 | 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         |
| 29 | Testing the accuracy of methods for the computation of <sc>CIE</sc> tristimulus values using weighting tables. Color Research and Application, 2016, 41, 125-142.   | 0.8 | 7         |
| 30 | Accurate Measurements of Spectral Reflectance in Picasso's <i>Guernica</i> Painting. Applied Spectroscopy, 2016, 70, 147-155.   | 1.2 | 6         |
| 31 | 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         |
| 32 | CIE94, History, Use, and Performance. , 2016, , 191-195.  |     | 1         |
| 33 | What can we learn from a dress with ambiguous colors?. Color Research and Application, 2015, 40, 525-529.   | 0.8 | 13        |
| 34 | CAT02 and HPE triangles. Color Research and Application, 2015, 40, 30-39.   | 0.8 | 5         |
| 35 | Measuring color differences in gonioapparent materials used in the automotive industry. Journal of Physics: Conference Series, 2015, 605, 012006.   | 0.3 | 1         |
| 36 | Optimum solution of the <sc>CIECAM</sc>02 yellow-blue and purple problems. Color Research and Application, 2015, 40, 491-503.   | 0.8 | 9         |

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|----|---|-----|-----------|
| 37 | All Effects of Psychophysical Variables on Color Attributes: A Classification System. PLoS ONE, 2015, 10, e0119024.   | 1.1 | 5         |
| 38 | Power functions improving the performance of color-difference formulas. Optics Express, 2015, 23, 597.  | 1.7 | 33        |
| 39 | CIE94, History, Use, and Performance. , 2015, , 1-5.  |     | 2         |
| 40 | 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        |
| 41 | Practical demonstration of the CIEDE2000 corrections to CIELAB using a small set of sample pairs. Color Research and Application, 2013, 38, 429-436.  | 0.8 | 9         |
| 42 | A note about the abnormal hue angle change in CIELAB space. Color Research and Application, 2013, 38, 322-327.  | 0.8 | 3         |
| 43 | Optimization of bleaching conditions for sardine oil. Journal of Food Engineering, 2013, 116, 606-612.  | 2.7 | 26        |
| 44 | 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        |
| 45 | Colour Difference Evaluation. , 2013, , 59-79.  |     | 12        |
| 46 | 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        |
| 47 | 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        |
| 48 | Is the Pharmacopoeia test a good estimator of the organic impurities in kaolin?. Applied Clay Science, 2011, 51, 431-437.   | 2.6 | 5         |
| 49 | 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        |
| 50 | 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. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2011, 28, 2226. | 0.8 | 13        |
| 51 | 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        |
| 52 | 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        |
| 53 | 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         |
| 54 | Colourimetric characterisation of disposable optical sensors from spectroradiometric measurements. Analytical and Bioanalytical Chemistry, 2009, 393, 1361-1366.  | 1.9 | 13        |

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|----|---|-----|-----------|
| 55 | Euclidean color-difference formula for small-medium color differences in log-compressed OSA-UCS space. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2009, 26, 121.          | 0.8 | 46        |
| 56 | 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        |
| 57 | Characterization of the human iris spectral reflectance with a multispectral imaging system. <i>Applied Optics</i> , 2008, 47, 5622.  | 2.1 | 31        |
| 58 | Performance of recent advanced color-difference formulas using the standardized residual sum of squares index. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2008, 25, 1828. | 0.8 | 73        |
| 59 | Measurement of the relationship between perceived and computed color differences. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2007, 24, 1823.                              | 0.8 | 174       |
| 60 | Request for existing experimental datasets on color differences. <i>Color Research and Application</i> , 2007, 32, 159-159.   | 0.8 | 25        |
| 61 | Influence of random-dot textures on perception of suprathreshold color differences. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2006, 23, 2067.                            | 0.8 | 36        |
| 62 | Performance of a color-difference formula based on OSA-UCS space using small-medium color differences. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2006, 23, 2077.         | 0.8 | 36        |
| 63 | Improvement of CMC upon CIEDE2000 for a new experimental dataset. <i>Color Research and Application</i> , 2006, 31, 239-241.  | 0.8 | 2         |
| 64 | Color coordinates of wine samples with different thicknesses. <i>Color Research and Application</i> , 2005, 30, 149-152.  | 0.8 | 2         |
| 65 | Effect of luminance of samples on color discrimination ellipses: Analysis and prediction of data. <i>Color Research and Application</i> , 2005, 30, 186-197.  | 0.8 | 22        |
| 66 | 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         |
| 67 | Relationships between chemico-mineralogical composition and color properties in selected natural and calcined Spanish kaolins. <i>Applied Clay Science</i> , 2005, 28, 269-282.   | 2.6 | 51        |
| 68 | Quantifying the effects of aggregation, particle size and components on the colour of Mediterranean soils. <i>European Journal of Soil Science</i> , 2004, 55, 551-565.   | 1.8 | 51        |
| 69 | Proposal of a uniform color scale for virgin olive oils. <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 2004, 81, 323-330.   | 0.8 | 5         |
| 70 | Are chroma tolerances dependent on hue-angle?. <i>Color Research and Application</i> , 2004, 29, 420-427.   | 0.8 | 18        |
| 71 | Relative significance of the terms in the CIEDE2000 and CIE94 color-difference formulas. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2004, 21, 2269.                       | 0.8 | 39        |
| 72 | Color variability for a wine sample poured into a standard glass wine sampler. <i>Color Research and Application</i> , 2003, 28, 473-479.   | 0.8 | 20        |

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|----|--|-----|-----------|
| 73 | On the relationship between tilt of $a^*b^*$ tolerance ellipses in blue region and tritanopic confusion lines. <i>Color Research and Application</i> , 2002, 27, 180-184.                  | 0.8 | 4         |
| 74 | Influence of chemical and mineralogical composition on color for commercial talcs. <i>Color Research and Application</i> , 2002, 27, 430-440.  | 0.8 | 13        |
| 75 | Note. Visual and Instrumental Color Evaluation in Red Wines. <i>Food Science and Technology International</i> , 2001, 7, 439-444.  | 1.1 | 222       |
| 76 | Reproducibility of the bromthymol blue standards used for color specification of virgin olive oil. <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 2001, 78, 265-270.        | 0.8 | 8         |
| 77 | Note. Visual and Instrumental Color Evaluation in Red Wines. <i>Food Science and Technology International</i> , 2001, 7, 439-444.  | 1.1 | 71        |
| 78 | Testing CIELAB-based color-difference formulas. <i>Color Research and Application</i> , 2000, 25, 49-55.   | 0.8 | 70        |
| 79 | Are we able to distinguish color attributes?. <i>Color Research and Application</i> , 2000, 25, 356-367.   | 0.8 | 35        |
| 80 | 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         |
| 81 | Usefulness of cathode ray tube color displays in chromaticity-discrimination experiments. <i>Applied Optics</i> , 2000, 39, 4021.  | 2.1 | 9         |
| 82 | Reliability of the bromthymol blue method for color in virgin olive oils. <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 1999, 76, 687-692.                                 | 0.8 | 17        |
| 83 | Color discrimination results from a CRT device: Influence of luminance. <i>Color Research and Application</i> , 1999, 24, 38-44.   | 0.8 | 24        |
| 84 | Whiteness of talcum powders as a quality index for pharmaceutical uses. <i>Color Research and Application</i> , 1998, 23, 178-185.   | 0.8 | 19        |
| 85 | 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         |
| 86 | Suprathreshold color-difference ellipsoids for surface colors. <i>Color Research and Application</i> , 1997, 22, 148-155.  | 0.8 | 92        |
| 87 | CIELAB COLOR PARAMETERS AND THEIR RELATIONSHIP TO SOIL CHARACTERISTICS IN MEDITERRANEAN RED SOILS. <i>Soil Science</i> , 1997, 162, 833-842.   | 0.9 | 33        |
| 88 | The weighting function for lightness in the CIE94 color-difference model. <i>Color Research and Application</i> , 1996, 21, 347-352.   | 0.8 | 5         |
| 89 | SPECTRORADIOMETRIC AND VISUAL COLOR MEASUREMENTS OF DISTURBED AND UNDISTURBED SOIL SAMPLES. <i>Soil Science</i> , 1995, 160, 291-303.  | 0.9 | 19        |
| 90 | Sensitivity differences in Chroma, Hue, and Lightness from several classical threshold datasets. <i>Color Research and Application</i> , 1995, 20, 220-225.                                | 0.8 | 21        |

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|----|--|-----|-----------|
| 91 | Uniformity of some recent color metrics tested with an accurate color-difference tolerance dataset. Applied Optics, 1994, 33, 8069.                              | 2.1 | 25        |
| 92 | 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        |
| 93 | 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         |
| 94 | Transformations from cone responses to opponent color spaces. Color Research and Application, 0, , .   | 0.8 | 1         |