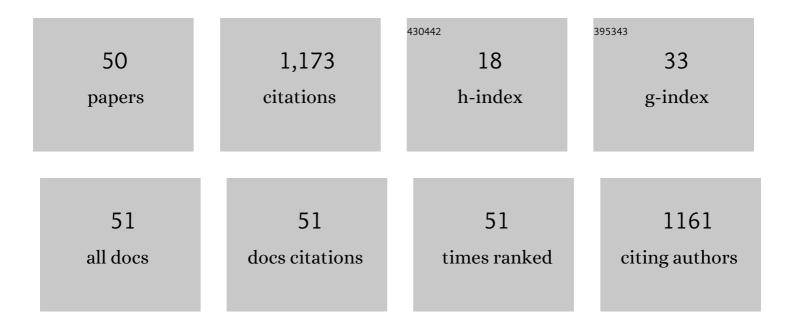
William E Vargas

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Applicability conditions of the Kubelka–Munk theory. Applied Optics, 1997, 36, 5580.	2.1	206
2	Optical properties of chitin and chitosan biopolymers with application to structural color analysis. Optical Materials, 2012, 35, 175-183.	1.7	82
3	Optical and electrical properties of hydrided palladium thin films studied by an inversion approach from transmittance measurements. Thin Solid Films, 2006, 496, 189-196.	0.8	70
4	Condensation of water by radiative cooling. Renewable Energy, 1994, 5, 310-317.	4.3	68
5	Optical properties of nano-structured dye-sensitized solar cells. Solar Energy Materials and Solar Cells, 2001, 69, 147-163.	3.0	61
6	Generalized four-flux radiative transfer model. Applied Optics, 1998, 37, 2615.	2.1	54
7	Optimization of the diffuse reflectance of pigmented coatings taking into account multiple scattering. Journal of Applied Physics, 2000, 88, 4079.	1.1	49
8	Inversion methods from Kubelka\$ndash\$Munk analysis. Journal of Optics, 2002, 4, 452-456.	1.5	38
9	Diffuse reflectance of TiO2 pigmented paints: Spectral dependence of the average pathlength parameter and the forward scattering ratio. Optics Communications, 2006, 261, 71-78.	1.0	37
10	Forward average path-length parameter in four-flux radiative transfer models. Applied Optics, 1997, 36, 3735.	2.1	36
11	Light Scattering in Pigmented Coatings:. Solar Energy, 2000, 68, 553-561.	2.9	36
12	Retrieved optical properties of thin films on absorbing substrates from transmittance measurements by application of a spectral projected gradient method. Thin Solid Films, 2003, 425, 1-8.	0.8	34
13	Visible light reflection spectra from cuticle layered materials. Optical Materials Express, 2011, 1, 85.	1.6	32
14	Generalized method for evaluating scattering parameters used in radiative transfer models. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1997, 14, 2243.	0.8	30
15	Visible spectral dependence of the scattering and absorption coefficients of pigmented coatings from inversion of diffuse reflectance spectra. Applied Optics, 2002, 41, 5969.	2.1	27
16	Intensity of diffuse radiation in particulate media. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1997, 14, 2253.	0.8	25
17	Two-flux radiative transfer model under nonisotropic propagating diffuse radiation. Applied Optics, 1999, 38, 1077.	2.1	25
18	Forward-scattering ratios and average pathlength parameter in radiative transfer models. Journal of Physics Condensed Matter, 1997, 9, 9083-9096.	0.7	24

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#	Article	IF	CITATIONS
19	Pigment mass density and refractive index determination from optical measurements. Journal of Physics Condensed Matter, 1997, 9, 1661-1670.	0.7	18
20	Qualitative correlation between structural chirality through the cuticle of Chrysina aurigans scarabs and left-handed circular polarization of the reflected light. Optical Materials Express, 2014, 4, 2632.	1.6	18
21	A quantitative assessment approach of feasible optical mechanisms contributing to structural color of golden-like Chrysina aurigans scarab beetles. Journal of Quantitative Spectroscopy and Radiative Transfer, 2015, 160, 63-74.	1.1	17
22	Optical properties of pigmented coatings taking into account particle interactions. Journal of Quantitative Spectroscopy and Radiative Transfer, 2003, 78, 187-195.	1.1	15
23	Diffuse radiation intensity propagating through a particulate slab. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1999, 16, 1362.	0.8	13
24	Scattering of Light by Colloidal Aluminosilicate Particles Produces the Unusual Sky-Blue Color of RÃo Celeste (Tenorio Volcano Complex, Costa Rica). PLoS ONE, 2013, 8, e75165.	1.1	12
25	Optical properties of a pair of spheres: comparison of different theories. Optics Communications, 1995, 115, 8-12.	1.0	11
26	Optical and electrical properties of terbium films as a function of hydrogen concentration. Physica Status Solidi (B): Basic Research, 2005, 242, 2005-2009.	0.7	11
27	Photonic Crystal Characterization of the Cuticles of Chrysina chrysargyrea and Chrysina optima Jewel Scarab Beetles. Biomimetics, 2018, 3, 30.	1.5	11
28	Parametric formulation of the dielectric function of palladium and palladium hydride thin films. Applied Optics, 2014, 53, 5294.	0.9	10
29	Broadening of effective photonic band gaps in biological chiral structures: From intrinsic narrow band gaps to broad band reflection spectra. Europhysics Letters, 2015, 111, 64001.	0.7	10
30	Dielectric functions of Pd and Zr transition metals: an application of Drude–Lorentz models with simulated annealing optimization. Applied Optics, 2017, 56, 1266.	2.1	10
31	Optical properties of silicon pigmented alumina films. Journal of Applied Physics, 1997, 82, 3508-3513.	1.1	9
32	Reflectance of pigmented polymer coatings: comparisons between measurements and radiative transfer calculations. Applied Optics, 2001, 40, 85.	2.1	8
33	<title>Pigmented foils for radiative cooling and condensation irrigation</title> ., 1994, 2255, 193.		7
34	Closed equation for the normal incidence reflectance of thin films on absorbing substrates. Applied Optics, 2007, 46, 502.	2.1	7
35	Scattering and absorption cross sections of light diffusing materials retrieved from reflectance and transmittance spectra of collimated radiation. Journal of Modern Optics, 2020, 67, 974-991.	0.6	7
36	Hydrogen induced changes in the optical properties of Pd capped V thin films. Journal of Alloys and Compounds, 2013, 580, S114-S118.	2.8	6

#	Article	IF	CITATIONS
37	Effective backscattering and absorption coefficients of light diffusing materials retrieved from reflectance and transmittance spectra of diffuse radiation. Journal of Modern Optics, 2021, 68, 605-623.	0.6	5
38	Dielectric function of Pd hydride thin films in terms of hydrogen concentration and film's thickness: A parametric formulation. Journal of Alloys and Compounds, 2015, 645, S320-S324.	2.8	4
39	Light scattering materials for energy-related applications: Determination of absorption and scattering coefficients. Materials Today: Proceedings, 2020, 33, 2474-2480.	0.9	4
40	Synthesis and characterization of Cu(II) containing PMMA co-polymer for optical applications. Journal of Materials Science, 2007, 42, 3161-3166.	1.7	3
41	Ultra thin films of gadolinium deposited by evaporation in ultra high vacuum conditions: Composition, growth and morphology. Applied Surface Science, 2011, 257, 3510-3518.	3.1	3
42	Dielectric function of palladium capped zirconium thin films as a function of absorbed hydrogen. International Journal of Hydrogen Energy, 2017, 42, 22373-22378.	3.8	3
43	Optical, charge transport and magnetic properties of palladium retrieved from photometric measurements: approaching the quantum mechanics background. Physica Scripta, 2019, 94, 055101.	1.2	3
44	Semiconductor behavior of hydrided Dy thin films as a function of increasing hydrogen pressure. Thin Solid Films, 2007, 515, 8087-8093.	0.8	2
45	Aggregation and composition effects on absorption and scattering properties of dye-sensitized anatase TiO2 particle clusters. Journal of Quantitative Spectroscopy and Radiative Transfer, 2008, 109, 1693-1704.	1.1	2
46	Polycrystalline indium films in the percolation threshold regime: time correlation between electric conduction and optical properties with film morphology. Materials Research Express, 2014, 1, 016302.	0.8	2
47	Optical, magnetic, and charge-carriers transport properties of a transition metal: bulk palladium. Applied Optics, 2017, 56, 6496.	0.9	2
48	Physical properties of rhodium retrieved from modeling its dielectric function by a simulated annealing approach. OSA Continuum, 2021, 4, 3233.	1.8	1
49	A numerical scheme to solve the Korteweg-de Vries equation. Computer Physics Communications, 1993, 74, 58-62.	3.0	0
50	Theoretical framework to describe the reflection of circularly polarized light by a natural photonic		0

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