

Sylvia C Pont

List of Publications by Year in descending order

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Version: 2024-02-01

88
papers

1,456
citations

304368

22
h-index

395343

33
g-index

91
all docs

91
docs citations

91
times ranked

560
citing authors

#	ARTICLE	IF	CITATIONS
1	Similar mechanisms underlie curvature comparison by static and dynamic touch. <i>Perception & Psychophysics</i> , 1999, 61, 874-894.	2.3	90
2	Material " Illumination Ambiguities and the Perception of Solid Objects. <i>Perception</i> , 2006, 35, 1331-1350.	0.5	75
3	The Visual Light Field. <i>Perception</i> , 2007, 36, 1595-1610.	0.5	74
4	Illusory gloss on Lambertian surfaces. <i>Journal of Vision</i> , 2010, 10, 13-13.	0.1	60
5	The secret of velvety skin. <i>Machine Vision and Applications</i> , 2003, 14, 260-268.	1.7	58
6	Haptic curvature discrimination at several regions of the hand. <i>Perception & Psychophysics</i> , 1997, 59, 1225-1240.	2.3	56
7	Illumination direction from texture shading. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2003, 20, 987.	0.8	42
8	A comparison of material and illumination discrimination performance for real rough, real smooth and computer generated smooth spheres. , 2005, , .		41
9	Irradiation direction from texture. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2003, 20, 1875.	0.8	39
10	Light field constancy within natural scenes. <i>Applied Optics</i> , 2007, 46, 7308.	2.1	37
11	Light Direction from Shad(ow)ed Random Gaussian Surfaces. <i>Perception</i> , 2004, 33, 1405-1420.	0.5	36
12	Bidirectional Texture Contrast Function. <i>International Journal of Computer Vision</i> , 2005, 62, 17-34.	10.9	36
13	Structure of light fields in natural scenes. <i>Applied Optics</i> , 2009, 48, 5386.	2.1	36
14	The creation of SenseLab: a laboratory for testing and experiencing single and combinations of indoor environmental conditions. <i>Intelligent Buildings International</i> , 2018, 10, 5-18.	1.3	36
15	Matching illumination of solid objects. <i>Perception & Psychophysics</i> , 2007, 69, 459-468.	2.3	35
16	Colored backgrounds affect the attractiveness of fresh produce, but not its perceived color. <i>Food Quality and Preference</i> , 2017, 56, 173-180.	2.3	32
17	Representing the light field in finite three-dimensional spaces from sparse discrete samples. <i>Applied Optics</i> , 2009, 48, 450.	2.1	31
18	The global structure of the visual light field and its relation to the physical light field. <i>Journal of Vision</i> , 2016, 16, 9.	0.1	30

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19	The Visual Light Field in Real Scenes. <i>I-Perception</i> , 2014, 5, 613-629.	0.8	27
20	Understanding gloss perception through the lens of art: Combining perception, image analysis, and painting recipes of 17th century painted grapes. <i>Journal of Vision</i> , 2019, 19, 7.	0.1	27
21	Bidirectional reflectance distribution function of specular surfaces with hemispherical pits. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2002, 19, 2456.	0.8	25
22	Haptic perception disambiguates visual perception of 3D shape. <i>Experimental Brain Research</i> , 2009, 193, 639-644.	0.7	24
23	Highlight shapes and perception of gloss for real and photographed objects. <i>Journal of Vision</i> , 2016, 16, 6.	0.1	24
24	Relative flattening between velvet and matte 3D shapes: Evidence for similar shape-from-shading computations. <i>Journal of Vision</i> , 2012, 12, 2-2.	0.1	22
25	Does monocular visual space contain planes?. <i>Acta Psychologica</i> , 2010, 134, 40-47.	0.7	19
26	A systematic approach to testing and predicting light-material interactions. <i>Journal of Vision</i> , 2019, 19, 11.	0.1	19
27	LIVING LIGHT INTERFACES – AN EXPLORATION OF BIOLUMINESCENCE AESTHETICS. , 2021, , .		19
28	Gestalt and phenomenal transparency. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2008, 25, 190.	0.8	18
29	Reflectance from locally glossy thoroughly pitted surfaces. <i>Computer Vision and Image Understanding</i> , 2005, 98, 211-222.	3.0	16
30	Effects of scene content and layout on the perceived light direction in 3D spaces. <i>Journal of Vision</i> , 2016, 16, 14.	0.1	16
31	Painterly depiction of material properties. <i>Journal of Vision</i> , 2020, 20, 7.	0.1	15
32	Flavorium: An Exploration of Flavobacteria’s Living Aesthetics for Living Color Interfaces. , 2022, , .		15
33	Anisotropy in Haptic Curvature and Shape Perception. <i>Perception</i> , 1998, 27, 573-589.	0.5	14
34	Split off-specular reflection and surface scattering from woven materials. <i>Applied Optics</i> , 2003, 42, 1526.	2.1	13
35	Depth in Box Spaces. <i>Seeing and Perceiving</i> , 2012, 25, 339-349.	0.4	13
36	Shading, a View from the Inside. <i>Seeing and Perceiving</i> , 2012, 25, 303-338.	0.4	13

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37	Perception of illuminance flow in the case of anisotropic rough surfaces. <i>Perception & Psychophysics</i> , 2007, 69, 895-903.	2.3	12
38	Material Properties and Image Cues for Convincing Grapes: The Know-How of the 17th-Century Pictorial Recipe by Willem Beurs. <i>Art and Perception</i> , 2020, 8, 337-362.	0.6	12
39	The Influence of Stimulus Tilt on Haptic Curvature Matching and Discrimination by Dynamic Touch. <i>Perception</i> , 1998, 27, 869-880.	0.5	11
40	Light: Toward a Transdisciplinary Science of Appearance and Atmosphere. <i>Annual Review of Vision Science</i> , 2019, 5, 503-527.	2.3	11
41	A juicy orange makes for a tastier juice: The neglected role of visual material perception in packaging design. <i>Food Quality and Preference</i> , 2021, 88, 104086.	2.3	11
42	MatMix 1.0: Using optical mixing to probe visual material perception. <i>Journal of Vision</i> , 2016, 16, 11.	0.1	10
43	Bidirectional Texture Contrast Function. <i>International Journal of Computer Vision</i> , 2005, 62, 17-34.	10.9	9
44	Shape, Surface Roughness and Human Perception. , 2008, , 197-222.		9
45	Human Research Ethics Committees in Technical Universities. <i>Journal of Empirical Research on Human Research Ethics</i> , 2014, 9, 67-73.	0.6	9
46	Perception of object illumination depends on highlights and shadows, not shading. <i>Journal of Vision</i> , 2017, 17, 2.	0.1	9
47	Bidirectional Texture Contrast Function. <i>Lecture Notes in Computer Science</i> , 2002, , 808-822.	1.0	9
48	Illuminance flow over anisotropic surfaces. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2008, 25, 282.	0.8	8
49	Phenomenal Transparency at X-Junctions. <i>Perception</i> , 2010, 39, 872-883.	0.5	8
50	Separate and Simultaneous Adjustment of Light Qualities in a Real Scene. <i>I-Perception</i> , 2017, 8, 204166951668608.	0.8	8
51	If painters give you lemons, squeeze the knowledge out of them. A study on the visual perception of the translucent and juicy appearance of citrus fruits in paintings. <i>Journal of Vision</i> , 2020, 20, 12.	0.1	8
52	The influence of lighting on visual perception of material qualities. , 2015, , .		7
53	The Synoptic Art Experience. <i>Art and Perception</i> , 2016, 4, 73-105.	0.6	7
54	Effects of light map orientation and shape on the visual perception of canonical materials. <i>Journal of Vision</i> , 2020, 20, 13.	0.1	7

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55	Illuminance Flow. Lecture Notes in Computer Science, 2003, , 90-97.	1.0	6
56	Ecological optics of natural materials and light fields. Proceedings of SPIE, 2009, , .	0.8	6
57	Human Participants in Engineering Research: Notes from a Fledgling Ethics Committee. Science and Engineering Ethics, 2015, 21, 1033-1048.	1.7	6
58	Asymmetric perceptual confounds between canonical lightings and materials. Journal of Vision, 2018, 18, 11.	0.1	6
59	Visual Light Zones. I-Perception, 2018, 9, 204166951878138.	0.8	6
60	Voluntarily controlled bi-€stable slant perception of real and photographed surfaces. Proceedings of the Royal Society B: Biological Sciences, 2005, 272, 141-148.	1.2	5
61	Spatial properties of light fields in natural scenes. , 2007, , .		5
62	Light Shapes. ACM Transactions on Applied Perception, 2019, 16, 1-17.	1.2	5
63	Illuminance flow over anisotropic surfaces with arbitrary viewpoint. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2009, 26, 1250.	0.8	4
64	Cast Shadows in Wide Perspective. Perception, 2011, 40, 938-948.	0.5	4
65	Probing light in real scenes using optical mixtures. , 2013, , .		4
66	The visual light field in paintings of Museum Prinsenhof: comparing settings in empty space and on objects. , 2015, , .		4
67	Contextual effects on real bicolored glossy surfaces. Journal of Vision, 2017, 17, 17.	0.1	4
68	Soft like velvet and shiny like satin: Perceptual material signatures of fabrics depicted in 17 th century paintings. Journal of Vision, 2021, 21, 10.	0.1	4
69	5.3: Quantifying Natural Light for Lighting and Display Design. Digest of Technical Papers SID International Symposium, 2021, 52, 99-103.	0.1	4
70	The interplay between material qualities and lighting. Journal of Vision, 2017, 17, 228.	0.1	4
71	Contextual effects in human gloss perception. IS&T International Symposium on Electronic Imaging, 2018, 30, 1-7.	0.3	3
72	Lighting Perceptual Intelligence. IS&T International Symposium on Electronic Imaging, 2018, 30, 1-11.	0.3	3

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73	2-1/2D texture mapping. , 2007, , .		2
74	Pointing in pictorial space. ACM Transactions on Applied Perception, 2010, 7, 1-8.	1.2	2
75	Texture, illumination, and material perception. , 2015, , .		2
76	Estimating the Illumination Direction From Three-Dimensional Texture of Brownian Surfaces. I-Perception, 2017, 8, 204166951770194.	0.8	2
77	Perception of Length to Width Relations of City Squares. I-Perception, 2013, 4, 111-121.	0.8	1
78	Human interpretation of light diffuseness. , 2017, , .		1
79	Analysis of second order light fields in closed 3D spaces. , 2008, , .		1
80	Illuminance Flow Estimation by Regression. International Journal of Computer Vision, 2010, 90, 304-312.	10.9	0
81	Box spaces in pictorial space: linear perspective versus templates. Proceedings of SPIE, 2012, , .	0.8	0
82	Visualizations of perceptually relevant light parameters. , 2016, , .		0
83	Pâ€2.1: Lighting effects, light distribution matters. Digest of Technical Papers SID International Symposium, 2019, 50, 956-958.	0.1	0
84	Estimation of Illuminance Flow over Anisotropic Surfaces for Arbitrary Viewpoints. , 2008, , .		0
85	A comparison of physical and visual light fields structures. Journal of Vision, 2015, 15, 634.	0.1	0
86	The optics, perception and design of light diffuseness in real scenes. Journal of Vision, 2017, 17, 131.	0.1	0
87	Bulging out of the picture - or not? Oblique viewing effects on the convex-concave ambiguity.. Journal of Vision, 2019, 19, 199.	0.1	0
88	Material property space analysis for depicted materials. Journal of Vision, 2019, 19, 251a.	0.1	0