

# Kevin J Webb

## List of Publications by Year in descending order

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93  
papers

1,518  
citations

361413

20  
h-index

345221

36  
g-index

93  
all docs

93  
docs citations

93  
times ranked

1005  
citing authors

#	ARTICLE	IF	CITATIONS
1	Simultaneous Imaging and Localization in a Heavily Scattering Random Medium With Speckle Data From a Moving Object. , 2021, , .		0
2	Far-Subwavelength Spatial Resolution Using Relative Motion in Structured Illumination. , 2021, , .		0
3	Pushing and pulling optical pressure control with plasmonic surface waves. Physical Review B, 2021, 103, .	3.2	6
4	Super-resolution sensing with a randomly scattering analyzer. Physical Review Research, 2021, 3, .	3.6	5
5	Multiresolution Localization With Temporal Scanning for Super-Resolution Diffuse Optical Imaging of Fluorescence. IEEE Transactions on Image Processing, 2020, 29, 830-842.	9.8	5
6	Theory of speckle intensity correlations over object position in a heavily scattering random medium. Physical Review A, 2020, 101, .	2.5	11
7	Localization of Fluorescent Targets in Deep Tissue With Expanded Beam Illumination for Studies of Cancer and the Brain. IEEE Transactions on Medical Imaging, 2020, 39, 2472-2481.	8.9	2
8	Parametrization of speckle intensity correlations over object position for coherent sensing and imaging in heavily scattering random media. Physical Review Research, 2020, 2, .	3.6	5
9	Pushing and Pulling Optomechanics with Plasmonic Surface Waves. , 2020, , .		0
10	High-Resolution Imaging in Arbitrarily Heavily Scattering Random Media with Speckle Correlations over Object Position. , 2020, , .		0
11	Enhanced optical pressure with asymmetric cavities. Physical Review B, 2019, 99, .	3.2	5
12	Demonstration of Enhanced Optical Pressure on a Structured Surface. Physical Review Letters, 2019, 122, 083901.	7.8	10
13	Motion-based coherent optical imaging in heavily scattering random media. Optics Letters, 2019, 44, 2716.	3.3	11
14	Motion-Based Coherent Optical Sensing and Imaging in a Heavily Scattering Medium. , 2019, , .		0
15	Optical Pressure on a Structured Surface. , 2019, , .		0
16	In Vivo Super-Resolution Optical Localization for Imaging Neuron Activity Throughout the Brain. , 2019, , .		0
17	On Speckle Intensity Correlations Over Object Position. , 2019, , .		0
18	Optical pressure control with aperiodic nanostructured material. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 1408.	2.1	2

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19	Superresolution Diffuse Optical Imaging by Localization of Fluorescence. <i>Physical Review Applied</i> , 2018, 10, .	3.8	12
20	3D printed optical phantoms and deep tissue imaging for in vivo applications including oral surgery. , 2017, , .		3
21	Diffuse optical localization of blood vessels and 3D printing for guiding oral surgery. <i>Applied Optics</i> , 2017, 56, 6649.	1.8	11
22	Electromagnetic field control with binary aperiodic nanostructures. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2017, 34, 2059.	2.1	7
23	Deep Tissue Coherent Imaging Using Speckle Intensity Correlations Over Object Position. , 2017, , .		0
24	Imaging a Mask Object Embedded in Thick Tissue Using Speckle Intensity Correlations Over Object Position. , 2017, , .		0
25	Opportunities for sub-wavelength imaging based on motion in structured illumination. , 2017, , .		0
26	Printed optics: phantoms for quantitative deep tissue fluorescence imaging. <i>Optics Letters</i> , 2016, 41, 5230.	3.3	18
27	Enhanced and tunable resolution from an imperfect negative refractive index lens. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2016, 33, 445.	2.1	9
28	Relationship between the Einstein-Laub electromagnetic force and the Lorentz force on free charge. <i>Physical Review B</i> , 2016, 94, .	3.2	9
29	Object Motion with Structured Optical Illumination as a Basis for Far-Subwavelength Resolution. <i>Physical Review Applied</i> , 2016, 6, .	3.8	11
30	Imaging Hidden Objects with Spatial Speckle Intensity Correlations over Object Position. <i>Physical Review Letters</i> , 2016, 116, 073902.	7.8	53
31	Fabrication and application of heterogeneous printed mouse phantoms for whole animal optical imaging. <i>Applied Optics</i> , 2016, 55, 280.	2.1	26
32	Imaging Moving Objects Hidden in Arbitrarily Heavily Scattering Media. , 2016, , .		0
33	Range of Imaging and Focusing through Scattering Media. , 2016, , .		0
34	Electromagnetic force on structured metallic surfaces. <i>Physical Review B</i> , 2015, 92, .	3.2	11
35	Imaging fields through heavily scattering random media with speckle correlations over source position. , 2015, , .		0
36	Imaging Optical Fields Through Heavily Scattering Media. <i>Physical Review Letters</i> , 2014, 113, 263903.	7.8	52

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37	In vivo mouse fluorescence imaging for folate-targeted delivery and release kinetics. Biomedical Optics Express, 2014, 5, 2662.	2.9	16
38	Zero-mean circular Bessel statistics and Anderson localization. Physical Review E, 2014, 90, 022119.	2.1	9
39	Angle-insensitive and solar-blind ultraviolet bandpass filter. Optics Letters, 2014, 39, 5784.	3.3	8
40	Multilayer Metal-Dielectric Stack Ultraviolet Filter. , 2013, , .		0
41	Small animal optical diffusion tomography with targeted fluorescence. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2013, 30, 1146.	1.5	8
42	Nanoimprinted plasmonic nanocavity arrays. Optics Express, 2013, 21, 15081.	3.4	26
43	Dependence of the Radiation Pressure on the Background Refractive Index. Physical Review Letters, 2013, 111, 043602.	7.8	21
44	Nanoimprinted Plasmonic Nanocavity Arrays. , 2013, , .		1
45	Electromagnetic plane-wave forces on homogeneous material. Journal of the Optical Society of America B: Optical Physics, 2012, 29, 1904.	2.1	11
46	Electromagnetic field energy density in homogeneous negative index materials. Optics Express, 2012, 20, 11370.	3.4	9
47	Optimization-Based Terahertz Imaging. IEEE Transactions on Terahertz Science and Technology, 2012, 2, 493-503.	3.1	5
48	Electromagnetic energy in negative index materials. , 2012, , .		0
49	Electromagnetic plane-wave force on a slab having various constitutive parameters and embedded in a background material. Journal of the Optical Society of America B: Optical Physics, 2012, 29, 3330.	2.1	6
50	Electromagnetic Plane Wave Force in Homogeneous Negative Index Materials. , 2012, , .		0
51	Resonance cone formation in a curved cylindrically anisotropic metamaterial film. Optics Letters, 2011, 36, 343.	3.3	1
52	Resonance cones in cylindrically anisotropic metamaterials: a Green's function analysis. Optics Letters, 2011, 36, 379.	3.3	6
53	Negative electromagnetic plane-wave force in gain media. Physical Review E, 2011, 84, 057602.	2.1	52
54	Accuracy of effective medium parameter extraction procedures for optical metamaterials. Physical Review B, 2010, 81, .	3.2	13

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55	Leaky wave radiation from planar anisotropic metamaterial slabs. <i>Physical Review B</i> , 2010, 81, .	3.2	9
56	Coherent incident field information through thick random scattering media from speckle correlations over source position. <i>Applied Optics</i> , 2010, 49, 5899.	2.1	10
57	Deep-tissue imaging of intramolecular fluorescence resonance energy-transfer parameters. <i>Optics Letters</i> , 2010, 35, 1314.	3.3	22
58	Approximate Green's function for a uniaxially anisotropic metamaterial slab, and its application in analyzing a spectrometer. <i>Optics Letters</i> , 2010, 35, 1869.	3.3	3
59	Electromagnetic field energy in dispersive materials. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2010, 27, 1215.	2.1	22
60	Leaky-wave antennas with anisotropic metamaterials. , 2010, , .		0
61	Lossless Negative Dielectric Constant Optical Material from a Semiconductor Quantum Dot Mixture. , 2009, , .		0
62	Optical circuit elements from anisotropic films. , 2009, , .		0
63	Optical circuits from anisotropic films. <i>Physical Review B</i> , 2009, 79, .	3.2	10
64	Subwavelength imaging with nonmagnetic anisotropic bilayers. <i>Optics Letters</i> , 2009, 34, 2243.	3.3	14
65	Towards in vivo imaging of intramolecular fluorescence resonance energy transfer parameters. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2009, 26, 1805.	1.5	21
66	Approximate Green's Function for a Uniaxially Anisotropic Slab. , 2009, , .		0
67	Semiconductor quantum dot mixture as a lossless negative dielectric constant optical material. <i>Physical Review B</i> , 2008, 78, .	3.2	23
68	Perfect-lens-material condition from adjacent absorptive and gain resonances. <i>Optics Letters</i> , 2008, 33, 747.	3.3	18
69	Localization of an absorbing inhomogeneity in a scattering medium in a statistical framework. <i>Optics Letters</i> , 2007, 32, 3026.	3.3	9
70	A Correlated Diffusion Noise Model for the Field-Effect Transistor. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 2007, 26, 1782-1789.	2.7	2
71	Fast and Efficient Stored Matrix Techniques for Optical Tomography. , 2006, , .		4
72	Subwavelength imaging with a multilayer silver film structure. <i>Optics Letters</i> , 2006, 31, 2130.	3.3	64

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73	Resonant waveguide field enhancement in dimers. <i>Optics Letters</i> , 2006, 31, 3348.	3.3	4
74	Polarized temporal impulse response for scattering media from third-order frequency correlations of speckle intensity patterns. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2006, 23, 3045.	1.5	11
75	Generation and control of optical vortices using left-handed materials. <i>Physical Review E</i> , 2006, 74, 016601.	2.1	16
76	Multigrid tomographic inversion with variable resolution data and image spaces. <i>IEEE Transactions on Image Processing</i> , 2006, 15, 2805-2819.	9.8	17
77	On the physical origins of the negative index of refraction. <i>New Journal of Physics</i> , 2005, 7, 213-213.	2.9	21
78	A general framework for nonlinear multigrid inversion. <i>IEEE Transactions on Image Processing</i> , 2005, 14, 125-140.	9.8	56
79	Statistical approach for detection and localization of a fluorescing mouse tumor in Intralipid. <i>Applied Optics</i> , 2005, 44, 2300.	2.1	34
80	Estimation of kinetic model parameters in fluorescence optical diffusion tomography. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2005, 22, 1357.	1.5	33
81	Poynting vector analysis of a superlens. <i>Optics Letters</i> , 2005, 30, 2382.	3.3	26
82	Spectral and temporal speckle field measurements of a random medium. <i>Optics Letters</i> , 2004, 29, 1491.	3.3	31
83	Fluorescence optical diffusion tomography. <i>Applied Optics</i> , 2003, 42, 3081.	2.1	226
84	Temporal response of a random medium from speckle intensity frequency correlations. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2003, 20, 2057.	1.5	20
85	Functional field transformation with irregular waveguide structures. <i>Applied Physics Letters</i> , 2003, 83, 2736-2738.	3.3	9
86	Three-dimensional Bayesian optical diffusion tomography with experimental data. <i>Optics Letters</i> , 2002, 27, 95.	3.3	52
87	Characterization and imaging in optically scattering media by use of laser speckle and a variable-coherence source. <i>Optics Letters</i> , 2000, 25, 4.	3.3	77
88	MCGS: A Modified Conjugate Gradient Squared Algorithm for Nonsymmetric Linear Systems. <i>Journal of Supercomputing</i> , 1999, 14, 257-280.	3.6	7
89	Optical diffusion tomography by iterative-coordinate-descent optimization in a Bayesian framework. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1999, 16, 2400.	1.5	114
90	Diffusive media characterization with laser speckle. <i>Applied Optics</i> , 1997, 36, 3726.	2.1	51

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91	Compact circular waveguide mode converters. Microwave and Optical Technology Letters, 1996, 13, 251-255.	1.4	5
92	Compact circular waveguide mode converters. , 1996, 13, 251.		1
93	Low Noise Amplifiers: Device Noise Characterization and Design. , 0, , .		0