

Kevin J Webb

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/399225/publications.pdf>

Version: 2024-02-01

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	Fluorescence optical diffusion tomography. <i>Applied Optics</i> , 2003, 42, 3081.	2.1	226
2	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
3	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
4	Subwavelength imaging with a multilayer silver film structure. <i>Optics Letters</i> , 2006, 31, 2130.	3.3	64
5	A general framework for nonlinear multigrid inversion. <i>IEEE Transactions on Image Processing</i> , 2005, 14, 125-140.	9.8	56
6	Imaging Hidden Objects with Spatial Speckle Intensity Correlations over Object Position. <i>Physical Review Letters</i> , 2016, 116, 073902.	7.8	53
7	Three-dimensional Bayesian optical diffusion tomography with experimental data. <i>Optics Letters</i> , 2002, 27, 95.	3.3	52
8	Negative electromagnetic plane-wave force in gain media. <i>Physical Review E</i> , 2011, 84, 057602.	2.1	52
9	Imaging Optical Fields Through Heavily Scattering Media. <i>Physical Review Letters</i> , 2014, 113, 263903.	7.8	52
10	Diffusive media characterization with laser speckle. <i>Applied Optics</i> , 1997, 36, 3726.	2.1	51
11	Statistical approach for detection and localization of a fluorescing mouse tumor in Intralipid. <i>Applied Optics</i> , 2005, 44, 2300.	2.1	34
12	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
13	Spectral and temporal speckle field measurements of a random medium. <i>Optics Letters</i> , 2004, 29, 1491.	3.3	31
14	Poynting vector analysis of a superlens. <i>Optics Letters</i> , 2005, 30, 2382.	3.3	26
15	Nanoimprinted plasmonic nanocavity arrays. <i>Optics Express</i> , 2013, 21, 15081.	3.4	26
16	Fabrication and application of heterogeneous printed mouse phantoms for whole animal optical imaging. <i>Applied Optics</i> , 2016, 55, 280.	2.1	26
17	Semiconductor quantum dot mixture as a lossless negative dielectric constant optical material. <i>Physical Review B</i> , 2008, 78, .	3.2	23
18	Deep-tissue imaging of intramolecular fluorescence resonance energy-transfer parameters. <i>Optics Letters</i> , 2010, 35, 1314.	3.3	22

#	ARTICLE	IF	CITATIONS
19	Electromagnetic field energy in dispersive materials. Journal of the Optical Society of America B: Optical Physics, 2010, 27, 1215.	2.1	22
20	On the physical origins of the negative index of refraction. New Journal of Physics, 2005, 7, 213-213.	2.9	21
21	Towards in vivo imaging of intramolecular fluorescence resonance energy transfer parameters. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2009, 26, 1805.	1.5	21
22	Dependence of the Radiation Pressure on the Background Refractive Index. Physical Review Letters, 2013, 111, 043602.	7.8	21
23	Temporal response of a random medium from speckle intensity frequency correlations. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2003, 20, 2057.	1.5	20
24	Perfect-lens-material condition from adjacent absorptive and gain resonances. Optics Letters, 2008, 33, 747.	3.3	18
25	Printed optics: phantoms for quantitative deep tissue fluorescence imaging. Optics Letters, 2016, 41, 5230.	3.3	18
26	Multigrid tomographic inversion with variable resolution data and image spaces. IEEE Transactions on Image Processing, 2006, 15, 2805-2819.	9.8	17
27	Generation and control of optical vortices using left-handed materials. Physical Review E, 2006, 74, 016601.	2.1	16
28	In vivo mouse fluorescence imaging for folate-targeted delivery and release kinetics. Biomedical Optics Express, 2014, 5, 2662.	2.9	16
29	Subwavelength imaging with nonmagnetic anisotropic bilayers. Optics Letters, 2009, 34, 2243.	3.3	14
30	Accuracy of effective medium parameter extraction procedures for optical metamaterials. Physical Review B, 2010, 81, .	3.2	13
31	Superresolution Diffuse Optical Imaging by Localization of Fluorescence. Physical Review Applied, 2018, 10, .	3.8	12
32	Polarized temporal impulse response for scattering media from third-order frequency correlations of speckle intensity patterns. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2006, 23, 3045.	1.5	11
33	Electromagnetic plane-wave forces on homogeneous material. Journal of the Optical Society of America B: Optical Physics, 2012, 29, 1904.	2.1	11
34	Electromagnetic force on structured metallic surfaces. Physical Review B, 2015, 92, .	3.2	11
35	Object Motion with Structured Optical Illumination as a Basis for Far-Subwavelength Resolution. Physical Review Applied, 2016, 6, .	3.8	11
36	Theory of speckle intensity correlations over object position in a heavily scattering random medium. Physical Review A, 2020, 101, .	2.5	11

#	ARTICLE	IF	CITATIONS
37	Diffuse optical localization of blood vessels and 3D printing for guiding oral surgery. Applied Optics, 2017, 56, 6649.	1.8	11
38	Motion-based coherent optical imaging in heavily scattering random media. Optics Letters, 2019, 44, 2716.	3.3	11
39	Optical circuits from anisotropic films. Physical Review B, 2009, 79, .	3.2	10
40	Coherent incident field information through thick random scattering media from speckle correlations over source position. Applied Optics, 2010, 49, 5899.	2.1	10
41	Demonstration of Enhanced Optical Pressure on a Structured Surface. Physical Review Letters, 2019, 122, 083901.	7.8	10
42	Functional field transformation with irregular waveguide structures. Applied Physics Letters, 2003, 83, 2736-2738.	3.3	9
43	Localization of an absorbing inhomogeneity in a scattering medium in a statistical framework. Optics Letters, 2007, 32, 3026.	3.3	9
44	Leaky wave radiation from planar anisotropic metamaterial slabs. Physical Review B, 2010, 81, .	3.2	9
45	Electromagnetic field energy density in homogeneous negative index materials. Optics Express, 2012, 20, 11370.	3.4	9
46	Zero-mean circular Bessel statistics and Anderson localization. Physical Review E, 2014, 90, 022119.	2.1	9
47	Enhanced and tunable resolution from an imperfect negative refractive index lens. Journal of the Optical Society of America B: Optical Physics, 2016, 33, 445.	2.1	9
48	Relationship between the Einstein-Laub electromagnetic force and the Lorentz force on free charge. Physical Review B, 2016, 94, .	3.2	9
49	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
50	Angle-insensitive and solar-blind ultraviolet bandpass filter. Optics Letters, 2014, 39, 5784.	3.3	8
51	MCGS: A Modified Conjugate Gradient Squared Algorithm for Nonsymmetric Linear Systems. Journal of Supercomputing, 1999, 14, 257-280.	3.6	7
52	Electromagnetic field control with binary aperiodic nanostructures. Journal of the Optical Society of America B: Optical Physics, 2017, 34, 2059.	2.1	7
53	Resonance cones in cylindrically anisotropic metamaterials: a Green's function analysis. Optics Letters, 2011, 36, 379.	3.3	6
54	Pushing and pulling optical pressure control with plasmonic surface waves. Physical Review B, 2021, 103, .	3.2	6

#	ARTICLE	IF	CITATIONS
55	Electromagnetic plane-wave force on a slab having various constitutive parameters and embedded in a background material. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2012, 29, 3330.	2.1	6
56	Compact circular waveguide mode converters. <i>Microwave and Optical Technology Letters</i> , 1996, 13, 251-255.	1.4	5
57	Optimization-Based Terahertz Imaging. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2012, 2, 493-503.	3.1	5
58	Enhanced optical pressure with asymmetric cavities. <i>Physical Review B</i> , 2019, 99, .	3.2	5
59	Multiresolution Localization With Temporal Scanning for Super-Resolution Diffuse Optical Imaging of Fluorescence. <i>IEEE Transactions on Image Processing</i> , 2020, 29, 830-842.	9.8	5
60	Parametrization of speckle intensity correlations over object position for coherent sensing and imaging in heavily scattering random media. <i>Physical Review Research</i> , 2020, 2, .	3.6	5
61	Super-resolution sensing with a randomly scattering analyzer. <i>Physical Review Research</i> , 2021, 3, .	3.6	5
62	Fast and Efficient Stored Matrix Techniques for Optical Tomography. , 2006, , .		4
63	Resonant waveguide field enhancement in dimers. <i>Optics Letters</i> , 2006, 31, 3348.	3.3	4
64	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
65	3D printed optical phantoms and deep tissue imaging for in vivo applications including oral surgery. , 2017, , .		3
66	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
67	Localization of Fluorescent Targets in Deep Tissue With Expanded Beam Illumination for Studies of Cancer and the Brain. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 2472-2481.	8.9	2
68	Optical pressure control with aperiodic nanostructured material. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2019, 36, 1408.	2.1	2
69	Resonance cone formation in a curved cylindrically anisotropic metamaterial film. <i>Optics Letters</i> , 2011, 36, 343.	3.3	1
70	Nanoimprinted Plasmonic Nanocavity Arrays. , 2013, , .		1
71	Compact circular waveguide mode converters. , 1996, 13, 251.		1
72	Lossless Negative Dielectric Constant Optical Material from a Semiconductor Quantum Dot Mixture. , 2009, , .		0

#	ARTICLE	IF	CITATIONS
73	Optical circuit elements from anisotropic films. , 2009, , .		0
74	Leaky-wave antennas with anisotropic metamaterials. , 2010, , .		0
75	Electromagnetic energy in negative index materials. , 2012, , .		0
76	Multilayer Metal-Dielectric Stack Ultraviolet Filter. , 2013, , .		0
77	Imaging fields through heavily scattering random media with speckle correlations over source position. , 2015, , .		0
78	Simultaneous Imaging and Localization in a Heavily Scattering Random Medium With Speckle Data From a Moving Object. , 2021, , .		0
79	Far-Subwavelength Spatial Resolution Using Relative Motion in Structured Illumination. , 2021, , .		0
80	Low Noise Amplifiers: Device Noise Characterization and Design. , 0, , .		0
81	Approximate Green's Function for a Uniaxially Anisotropic Slab. , 2009, , .		0
82	Electromagnetic Plane Wave Force in Homogeneous Negative Index Materials. , 2012, , .		0
83	Imaging Moving Objects Hidden in Arbitrarily Heavily Scattering Media. , 2016, , .		0
84	Range of Imaging and Focusing through Scattering Media. , 2016, , .		0
85	Deep Tissue Coherent Imaging Using Speckle Intensity Correlations Over Object Position. , 2017, , .		0
86	Imaging a Mask Object Embedded in Thick Tissue Using Speckle Intensity Correlations Over Object Position. , 2017, , .		0
87	Opportunities for sub-wavelength imaging based on motion in structured illumination. , 2017, , .		0
88	Motion-Based Coherent Optical Sensing and Imaging in a Heavily Scattering Medium. , 2019, , .		0
89	Optical Pressure on a Structured Surface. , 2019, , .		0
90	In Vivo Super-Resolution Optical Localization for Imaging Neuron Activity Throughout the Brain. , 2019, , .		0

#	ARTICLE	IF	CITATIONS
91	On Speckle Intensity Correlations Over Object Position. , 2019, , .		0
92	Pushing and Pulling Optomechanics with Plasmonic Surface Waves. , 2020, , .		0
93	High-Resolution Imaging in Arbitrarily Heavily Scattering Random Media with Speckle Correlations over Object Position. , 2020, , .		0