

# Sean J Kirkpatrick

## List of Publications by Year in descending order

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Version: 2024-02-01

36  
papers

1,887  
citations

394421

19  
h-index

580821

25  
g-index

37  
all docs

37  
docs citations

37  
times ranked

1722  
citing authors

#	ARTICLE	IF	CITATIONS
1	Laser speckle contrast imaging: theoretical and practical limitations. <i>Journal of Biomedical Optics</i> , 2013, 18, 066018.	2.6	391
2	Detrimental effects of speckle-pixel size matching in laser speckle contrast imaging. <i>Optics Letters</i> , 2008, 33, 2886.	3.3	227
3	Can laser speckle flowmetry be made a quantitative tool?. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2008, 25, 2088.	1.5	196
4	Tissue Doppler optical coherence elastography for real time strain rate and strain mapping of soft tissue. <i>Applied Physics Letters</i> , 2006, 89, 144103.	3.3	144
5	OCT-based elastography for large and small deformations. <i>Optics Express</i> , 2006, 14, 11585.	3.4	140
6	Statistics of local speckle contrast. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2008, 25, 9.	1.5	135
7	Upgrading prevascularization in tissue engineering: A review of strategies for promoting highly organized microvascular network formation. <i>Acta Biomaterialia</i> , 2019, 95, 112-130.	8.3	78
8	Imaging the mechanical stiffness of skin lesions by in vivo acousto-optical elastography. <i>Optics Express</i> , 2006, 14, 9770.	3.4	76
9	Endothelial cell cytoskeletal alignment independent of fluid shear stress on micropatterned surfaces. <i>Biochemical and Biophysical Research Communications</i> , 2008, 371, 787-792.	2.1	75
10	Processing algorithms for tracking speckle shifts in optical elastography of biological tissues. <i>Journal of Biomedical Optics</i> , 2001, 6, 418.	2.6	57
11	Low-frequency surface wave propagation and the viscoelastic behavior of porcine skin. <i>Journal of Biomedical Optics</i> , 2004, 9, 1311.	2.6	44
12	Distinct extracellular matrix microenvironments of progenitor and carotid endothelial cells. <i>Journal of Biomedical Materials Research - Part A</i> , 2009, 91A, 528-539.	4.0	37
13	Acoustically modulated speckle imaging of biological tissues. <i>Optics Letters</i> , 1998, 23, 879.	3.3	35
14	A primer on radiometry. <i>Dental Materials</i> , 2005, 21, 21-26.	3.5	33
15	Quantitative temporal speckle contrast imaging for tissue mechanics. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2007, 24, 3728.	1.5	31
16	The Profile Drag of A Hawk's Wing, Measured by Wake Sampling in A Wind Tunnel. <i>Journal of Experimental Biology</i> , 1992, 165, 1-19.	1.7	30
17	High resolution imaged laser speckle strain gauge for vascular applications. <i>Journal of Biomedical Optics</i> , 2000, 5, 62.	2.6	27
18	Acousto-optical Characterization of the Viscoelastic Nature of a Nuchal Elastin Tissue Scaffold. <i>Tissue Engineering</i> , 2003, 9, 645-656.	4.6	26

#	ARTICLE	IF	CITATIONS
19	Combined effects of scattering and absorption on laser speckle contrast imaging. Journal of Biomedical Optics, 2016, 21, 076002.	2.6	25
20	Automated Methods to Determine Electrospun Fiber Alignment and Diameter Using the Radon Transform. BioNanoScience, 2013, 3, 329-342.	3.5	19
21	Micromechanical behavior of cortical bone as inferred from laser speckle data. , 1998, 39, 373-379.		16
22	Transform method of processing for speckle strain-rate measurements. Applied Optics, 1994, 33, 5177.	2.1	10
23	Assessment of incident intensity on laser speckle contrast imaging using a nematic liquid crystal spatial light modulator. Journal of Biomedical Optics, 2016, 21, 036001.	2.6	8
24	Laser speckle contrast imaging for the quantitative assessment of flow. Proceedings of SPIE, 2009, , .	0.8	7
25	Noncontact microstrain measurements in orthodontic wires. Journal of Biomedical Materials Research Part B, 1995, 29, 1437-1442.	3.1	5
26	Electrospun fiber alignment using the radon transform. , 2011, , .		4
27	Low-frequency surface wave propagation and the viscoelastic behavior of porcine skin. , 2004, , .		3
28	<title>Low-frequency surface wave propagation and the viscoelastic behavior of porcine skin</title>. , 2004, , .		3
29	Importance of intromission in maintaining the alternating pattern of male mounting behavior and hemipenis use in the lizard <i>Anolis sagrei</i> . The Journal of Experimental Zoology, 1991, 259, 138-144.	1.4	2
30	Viscoelastic anisotropy in porcine skin: acousto-optical and mechanical measurements (Invited Paper). , 2005, , .		2
31	<title>Surface mechanics of biological tissues using low-frequency rayleigh waves detected by laser speckle</title>. , 2002, , .		1
32	<title>Material properties of engineered tissues evaluated with nondestructive methods</title>. , 2002, 4617, 275.		0
33	Comparison of optical microscopy and optical coherence tomography as quality assurance methods for evaluating lubricious hydrophilic coatings surrounding catheter shafts. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2020, 108, 2538-2545.	3.4	0
34	Characterizing mechanical properties of soft tissues using non-contact displacement measurements: how should we assess the uncertainty?. , 2021, 11645, .		0
35	Imaging the mechanical properties of biological tissues. , 2002, , .		0
36	Acoustically Modulated Speckle Imaging of Soft Tissue. , 1999, , .		0