

# Kevin Buckley

## List of Publications by Year in descending order

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Version: 2024-02-01

32  
papers

1,002  
citations

471061

17  
h-index

552369

26  
g-index

33  
all docs

33  
docs citations

33  
times ranked

1295  
citing authors

#	ARTICLE	IF	CITATIONS
1	Raman Spectroscopy of Blood and Blood Components. Applied Spectroscopy, 2017, 71, 767-793.	1.2	207
2	Applications of Raman Spectroscopy in Biopharmaceutical Manufacturing: A Short Review. Applied Spectroscopy, 2017, 71, 1085-1116.	1.2	122
3	Recent advances in the application of transmission Raman spectroscopy to pharmaceutical analysis. Journal of Pharmaceutical and Biomedical Analysis, 2011, 55, 645-652.	1.4	107
4	Non-invasive analysis of turbid samples using deep Raman spectroscopy. Analyst, The, 2011, 136, 3039-3050.	1.7	70
5	All-optical memory based on the injection locking bistability of a two-color laser diode. Optics Express, 2009, 17, 6293.	1.7	56
6	Towards the <i>in vivo</i> prediction of fragility fractures with Raman spectroscopy. Journal of Raman Spectroscopy, 2015, 46, 610-618.	1.2	53
7	Non-invasive spectroscopy of transfusable red blood cells stored inside sealed plastic blood-bags. Analyst, The, 2016, 141, 1678-1685.	1.7	44
8	Raman spectroscopy reveals differences in collagen secondary structure which relate to the levels of mineralisation in bones that have evolved for different functions. Journal of Raman Spectroscopy, 2012, 43, 1237-1243.	1.2	42
9	Decomposition of <i>in vivo</i> spatially offset Raman spectroscopy data using multivariate analysis techniques. Journal of Raman Spectroscopy, 2014, 45, 188-192.	1.2	38
10	Evidence from Raman Spectroscopy of a Putative Link Between Inherent Bone Matrix Chemistry and Degenerative Joint Disease. Arthritis and Rheumatology, 2014, 66, 1237-1246.	2.9	31
11	Measurement of abnormal bone composition <i>in vivo</i> using noninvasive Raman spectroscopy. IBMS BoneKEy, 2014, 11, 602.	0.1	30
12	Design of Single-Mode and Two-Color Fabry-Pérot Lasers With Patterned Refractive Index. IEEE Journal of Selected Topics in Quantum Electronics, 2007, 13, 1157-1163.	1.9	29
13	Antiphase dynamics in a multimode semiconductor laser with optical injection. Physical Review A, 2009, 79, .	1.0	27
14	Raman spectroscopy as a novel tool for monitoring biochemical changes and inter-donor variability in stored red blood cell units. Analyst, The, 2016, 141, 3319-3327.	1.7	20
15	Spatially offset Raman spectroscopy for photon migration studies in bones with different mineralization levels. Analyst, The, 2017, 142, 3219-3226.	1.7	19
16	Inverse scattering approach to multiwavelength Fabry-Pérot laser design. Physical Review A, 2006, 74, .	1.0	17
17	Functional adaptation of long bone extremities involves the localized "tuning" of the cortical bone composition; evidence from Raman spectroscopy. Journal of Biomedical Optics, 2014, 19, 111602.	1.4	17
18	Photon migration of Raman signal in bone as measured with spatially offset Raman spectroscopy. Journal of Raman Spectroscopy, 2016, 47, 240-247.	1.2	15

#	ARTICLE	IF	CITATIONS
19	Combined autofluorescence and diffuse reflectance for brain tumour surgical guidance: initial ex vivo study results. <i>Biomedical Optics Express</i> , 2021, 12, 2432.	1.5	11
20	Is the Collagen Primed for Mineralization in Specific Regions of the Turkey Tendon? An Investigation of the Proteinâ€“Mineral Interface Using Raman Spectroscopy. <i>Analytical Chemistry</i> , 2016, 88, 1559-1563.	3.2	10
21	Comparison of Surgical Smoke Generated During Electrosurgery with Aerosolized Particulates from Ultrasonic and High-Speed Cutting. <i>Annals of Biomedical Engineering</i> , 2021, 49, 560-572.	1.3	8
22	The use of laser spectroscopy to investigate bone disease in King Henry VIII's sailors. <i>Journal of Archaeological Science</i> , 2015, 53, 516-520.	1.2	7
23	Technique for Enhancing Signal in Conventional Backscattering Fluorescence and Raman Spectroscopy of Turbid Media. <i>Analytical Chemistry</i> , 2008, 80, 6006-6009.	3.2	6
24	Millimeter-Scale Mapping of Cortical Bone Reveals Organ-Scale Heterogeneity. <i>Applied Spectroscopy</i> , 2014, 68, 510-514.	1.2	4
25	Two-colour Fabry-Perot laser with terahertz primary mode spacing. <i>Electronics Letters</i> , 2007, 43, 224.	0.5	3
26	Spatially offset Raman spectroscopy for photon migration investigations in long bone. <i>Proceedings of SPIE</i> , 2015, , .	0.8	3
27	Raman spectroscopy of stored red blood cells: evaluating clinically relevant biochemical markers in donated blood. , 2015, , .		3
28	Assessment of photon migration for subsurface probing in selected types of bone using spatially offset Raman spectroscopy. , 2016, , .		1
29	Injection driven chaotic dynamics of a two-colour Fabry-Perot laser diode. , 2007, , .		0
30	Non-Invasive Detection of Concealed Liquid and Powder Explosives Using Spatially Offset Raman spectroscopy. , 2012, , 289-294.		0
31	Raman spectroscopy of stored red blood cells: evaluating clinically-relevant biochemical markers in donated blood. <i>Proceedings of SPIE</i> , 2015, , .	0.8	0
32	Spatially Offset Raman Spectroscopy for photon migration investigations in long bone. , 2015, , .		0