

Paul R Stoddart

List of Publications by Citations

Source: <https://exaly.com/author-pdf/9518832/paul-r-stoddart-publications-by-citations.pdf>

Version: 2024-04-23

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

135
papers

3,264
citations

35
h-index

53
g-index

160
ext. papers

3,827
ext. citations

5.1
avg, IF

5.43
L-index

#	Paper	IF	Citations
135	Escherichia coli, Pseudomonas aeruginosa, and Staphylococcus aureus attachment patterns on glass surfaces with nanoscale roughness. <i>Current Microbiology</i> , 2009 , 58, 268-73	2.4	189
134	Microfluidics and Raman microscopy: current applications and future challenges. <i>Chemical Society Reviews</i> , 2013 , 42, 5880-906	58.5	149
133	Impact of nano-topography on bacterial attachment. <i>Biotechnology Journal</i> , 2008 , 3, 536-44	5.6	146
132	The optical fiber tip: an inherently light-coupled microscopic platform for micro- and nanotechnologies. <i>Advanced Materials</i> , 2014 , 26, 3798-820	24	129
131	Nanoimprinted optical fibres: Biotemplated nanostructures for SERS sensing. <i>Biosensors and Bioelectronics</i> , 2009 , 24, 1531-5	11.8	114
130	Gold-nanorod-assisted near-infrared stimulation of primary auditory neurons. <i>Advanced Healthcare Materials</i> , 2014 , 3, 1862-8	10.1	97
129	Surface Brillouin scattering study of the surface excitations in amorphous silicon layers produced by ion bombardment. <i>Physical Review B</i> , 1998 , 58, 13677-13685	3.3	85
128	Optical properties of chitin: surface-enhanced Raman scattering substrates based on antireflection structures on cicada wings. <i>Nanotechnology</i> , 2006 , 17, 680-686	3.4	82
127	Optical fibre SERS sensors. <i>Analytical and Bioanalytical Chemistry</i> , 2009 , 394, 1761-74	4.4	73
126	Improved methods for fluorescence background subtraction from Raman spectra. <i>Journal of Raman Spectroscopy</i> , 2013 , 44, 1587-1595	2.3	72
125	Laser exposure of gold nanorods can increase neuronal cell outgrowth. <i>Biotechnology and Bioengineering</i> , 2013 , 110, 2277-91	4.9	72
124	Corrosion of carbon steel by sulphate reducing bacteria: Initial attachment and the role of ferrous ions. <i>Corrosion Science</i> , 2015 , 93, 48-57	6.8	72
123	Optical Stimulation of Neurons. <i>Current Molecular Imaging</i> , 2014 , 3, 162-177		65
122	Critical Review of Transcutaneous Vagus Nerve Stimulation: Challenges for Translation to Clinical Practice. <i>Frontiers in Neuroscience</i> , 2020 , 14, 284	5.1	62
121	Laser fabricated ripple substrates for surface-enhanced Raman scattering. <i>Annalen Der Physik</i> , 2012 , 524, L5-L10	2.6	59
120	Differences in colonisation of five marine bacteria on two types of glass surfaces. <i>Biofouling</i> , 2009 , 25, 621-31	3.3	58
119	Versatile SERS sensing based on black silicon. <i>Optics Express</i> , 2015 , 23, 6763-72	3.3	57

118	Active control of silver nanoparticles spacing using dielectrophoresis for surface-enhanced Raman scattering. <i>Analytical Chemistry</i> , 2012 , 84, 4029-35	7.8	56
117	Nanostructured optical fiber with surface-enhanced Raman scattering functionality. <i>Optics Letters</i> , 2005 , 30, 598-600	3	56
116	Sub-15nm optical fiber nanoimprint lithography: A parallel, self-aligned and portable approach. <i>Advanced Materials</i> , 2011 , 23, 531-5	24	54
115	Laser exposure of gold nanorods can induce intracellular calcium transients. <i>Journal of Biophotonics</i> , 2014 , 7, 761-5	3.1	53
114	Surface-enhanced Raman scattering sensing on black silicon. <i>Annalen Der Physik</i> , 2013 , 525, 907-914	2.6	49
113	Nanostructured optical fibre arrays for high-density biochemical sensing and remote imaging. <i>Analytical and Bioanalytical Chemistry</i> , 2010 , 396, 53-71	4.4	48
112	Infrared neural stimulation fails to evoke neural activity in the deaf guinea pig cochlea. <i>Hearing Research</i> , 2015 , 324, 46-53	3.9	46
111	Dielectrophoresis-Raman spectroscopy system for analysing suspended nanoparticles. <i>Lab on A Chip</i> , 2011 , 11, 921-8	7.2	46
110	Additional enhancement of electric field in surface-enhanced Raman Scattering due to Fresnel mechanism. <i>Scientific Reports</i> , 2013 , 3, 2335	4.9	45
109	In situ SERS probing of nano-silver coated individual yeast cells. <i>Biosensors and Bioelectronics</i> , 2013 , 49, 536-41	11.8	45
108	Gold Nanoparticles for Modulating Neuronal Behavior. <i>Nanomaterials</i> , 2017 , 7,	5.4	45
107	Modeling of light absorption in tissue during infrared neural stimulation. <i>Journal of Biomedical Optics</i> , 2012 , 17, 075002	3.5	43
106	Fabrication of a range of SERS substrates on nanostructured multicore optical fibres. <i>Journal of Raman Spectroscopy</i> , 2007 , 38, 377-382	2.3	40
105	From Fundamental toward Applied SERS: Shared Principles and Divergent Approaches. <i>Advanced Optical Materials</i> , 2018 , 6, 1800292	8.1	39
104	Influence of electric field on SERS: frequency effects, intensity changes, and susceptible bonds. <i>Journal of the American Chemical Society</i> , 2012 , 134, 4646-53	16.4	36
103	Modeling of the temporal effects of heating during infrared neural stimulation. <i>Journal of Biomedical Optics</i> , 2013 , 18, 035004	3.5	36
102	Accumulation of radioactive corrosion products on steel surfaces of VVER type nuclear reactors. I. 110mAg. <i>Journal of Nuclear Materials</i> , 1999 , 265, 273-284	3.3	36
101	High-temperature elastic constants of yttrium aluminum garnet. <i>Journal of Applied Physics</i> , 1993 , 73, 7298-7301	2.5	35

100	Inhibition or acceleration: Bacterial test media can determine the course of microbiologically influenced corrosion. <i>Corrosion Science</i> , 2014 , 86, 149-158	6.8	33
99	Infrared Neural Stimulation: Influence of Stimulation Site Spacing and Repetition Rates on Heating. <i>IEEE Transactions on Biomedical Engineering</i> , 2013 , 60, 3534-41	5	31
98	Temperature measurement in the microscopic regime: a comparison between fluorescence lifetime- and intensity-based methods. <i>Journal of Microscopy</i> , 2013 , 250, 179-88	1.9	30
97	Statistically quantified measurement of an Alzheimer's marker by surface-enhanced Raman scattering. <i>Journal of Biophotonics</i> , 2015 , 8, 567-74	3.1	29
96	Brillouin-scattering measurements of surface-acoustic-wave velocities in silicon at high temperatures. <i>Physical Review B</i> , 1995 , 51, 17574-17578	3.3	27
95	Nanoparticle-enhanced infrared neural stimulation. <i>Journal of Neural Engineering</i> , 2014 , 11, 065002	5	26
94	Strain-based health assessment of bonded composite repairs. <i>Composite Structures</i> , 2006 , 76, 234-242	5.3	26
93	Optical fiber sensor based on oblique angle deposition. <i>Applied Optics</i> , 2011 , 50, 155-62	0.2	25
92	High-temperature elastic properties of a nickel-based superalloy studied by surface Brillouin scattering. <i>Journal of Physics Condensed Matter</i> , 2001 , 13, 2281-2294	1.8	25
91	Fibre optic distributed temperature sensor with an integrated background correction function. <i>Measurement Science and Technology</i> , 2005 , 16, 1299-1304	2	24
90	Distributed Fluorescence Sensing Using Exposed Core Microstructured Optical Fiber. <i>IEEE Photonics Technology Letters</i> , 2010 , 22, 1385-1387	2.2	23
89	Black-CuO: surface-enhanced Raman scattering and infrared properties. <i>Nanoscale</i> , 2015 , 7, 18299-304	7.7	22
88	Raman spectroscopic identification of single bacterial cells at different stages of their lifecycle. <i>Vibrational Spectroscopy</i> , 2016 , 86, 81-89	2.1	20
87	Surface Brillouin scattering of opaque solids and thin supported films. <i>Ultrasonics</i> , 2000 , 38, 450-8	3.5	20
86	On the need for more realistic experimental conditions in laboratory-based microbiologically influenced corrosion testing. <i>International Biodeterioration and Biodegradation</i> , 2017 , 121, 97-106	4.8	19
85	Ultra-pure, water-dispersed Au nanoparticles produced by femtosecond laser ablation and fragmentation. <i>International Journal of Nanomedicine</i> , 2013 , 8, 2601-11	7.3	18
84	Measurement of forces at the tip of a cochlear implant during insertion. <i>IEEE Transactions on Biomedical Engineering</i> , 2014 , 61, 1177-86	5	17
83	The effect of metal microstructure on the initial attachment of Escherichia coli to 1010 carbon steel. <i>Biofouling</i> , 2013 , 29, 939-52	3.3	17

82	Nano-rescaling of gold films on polystyrene: thermal management for SERS. <i>Nanoscale</i> , 2017 , 9, 690-695.7		16
81	Influence of carbon steel grade on the initial attachment of bacteria and microbiologically influenced corrosion. <i>Biofouling</i> , 2016 , 32, 109-22	3.3	15
80	Light enhancement in surface-enhanced Raman scattering at oblique incidence. <i>Photonic Sensors</i> , 2012 , 2, 283-288	2.3	14
79	Effective optical constants of anisotropic silver nanoparticle films with plasmonic properties. <i>Optics Letters</i> , 2016 , 41, 5495-5498	3	14
78	Nanomechanical Properties and Phase Behavior of Phenylalanine Amyloid Ribbon Assemblies and Amorphous Self-Healing Hydrogels. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 21992-22001	9.5	14
77	Optical fibers for miniaturized surface-enhanced Raman-scattering probes. <i>Applied Optics</i> , 2013 , 52, 8388-93	9.3	13
76	Fabrication of a Biocompatible Liquid Crystal Graphene Oxide-Gold Nanorods Electro- and Photoactive Interface for Cell Stimulation. <i>Advanced Healthcare Materials</i> , 2019 , 8, e1801321	10.1	12
75	Analysis of defects patterned by femtosecond pulses inside KBr and SiO ₂ glass. <i>Applied Physics A: Materials Science and Processing</i> , 2016 , 122, 1	2.6	12
74	Light-induced reflectivity transients in black-Si nanoneedles. <i>Solar Energy Materials and Solar Cells</i> , 2016 , 144, 221-227	6.4	12
73	Controlled release from PCL-alginate microspheres via secondary encapsulation using GelMA/HAMA hydrogel scaffolds. <i>Soft Matter</i> , 2019 , 15, 3779-3787	3.6	11
72	Analysis of transmission mode of a matched fiber Bragg grating interrogation scheme. <i>Applied Optics</i> , 2010 , 49, 4498-505	0.2	11
71	High-temperature studies of surface acoustic wave velocities in silicon by Brillouin scattering. <i>Physica B: Condensed Matter</i> , 1996 , 219-220, 717-719	2.8	11
70	Metallic nanoparticles for peripheral nerve regeneration: is it a feasible approach?. <i>Neural Regeneration Research</i> , 2015 , 10, 1065-6	4.5	11
69	Combined optogenetic and electrical stimulation of auditory neurons increases effective stimulation frequency-an in vitro study. <i>Journal of Neural Engineering</i> , 2020 , 17, 016069	5	10
68	Origins of Spectral Changes in Fiber Bragg Gratings Due to Macrobending. <i>Journal of Lightwave Technology</i> , 2012 , 30, 3500-3511	4	10
67	Collection efficiency of scattered light in single-ended optical fiber sensors. <i>Optics Letters</i> , 2012 , 37, 2142-4	3	10
66	Biological Considerations of Optical Interfaces for Neuromodulation. <i>Advanced Optical Materials</i> , 2019 , 7, 1900385	8.1	9
65	Theoretical Model and Design Considerations of U-Shaped Fiber Optic Sensors: A Review. <i>IEEE Sensors Journal</i> , 2020 , 20, 14578-14589	4	9

64	Trends and Applications of U-Shaped Fiber Optic Sensors: A Review. <i>IEEE Sensors Journal</i> , 2021 , 21, 120-131	131	9
63	Electric field induced surface-enhanced Raman spectroscopy for multianalyte detection. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 7095-9	3.6	8
62	Microstructural refinement of aluminium-zinc-silicon coated steels. <i>Surface and Coatings Technology</i> , 2016 , 306, 490-496	4.4	8
61	The Effect of the Cladding Refractive Index on an Optical Fiber Evanescent-Wave Sensor. <i>Journal of Lightwave Technology</i> , 2013 , 31, 3251-3257	4	8
60	Effect of substrate temperature on the splat formation of flame sprayed polypropylene. <i>Surface and Coatings Technology</i> , 2011 , 206, 1180-1187	4.4	8
59	Characterization of time-resolved fluorescence response measurements for distributed optical-fiber sensing. <i>Applied Optics</i> , 2010 , 49, 6385-90	0.2	8
58	Molecular Imaging of Red Blood Cells by Raman Spectroscopy. <i>Australian Journal of Chemistry</i> , 2011 , 64, 593	1.2	8
57	Nano-structured surfaces control bacterial attachment 2008 ,		8
56	Black silicon as a platform for bacterial detection. <i>Biomicrofluidics</i> , 2015 , 9, 061101	3.2	7
55	Gold Nanorod-assisted Optical Stimulation of Neuronal Cells. <i>Journal of Visualized Experiments</i> , 2015 ,	1.6	7
54	Diffraction-limited ultrasensitive molecular nano-arrays with singular nano-cone scattering. <i>Biomicrofluidics</i> , 2014 , 8, 021101	3.2	7
53	Quasielastic light scattering in silicon. <i>Physical Review B</i> , 2000 , 62, 15383-15385	3.3	7
52	Patterning of biomaterials by aerosol jet printing: A parametric study. <i>Bioprinting</i> , 2020 , 18, e00081	7	6
51	Wavelength and refractive index dependence of the geometrical enhancement in surface-enhanced Raman scattering. <i>Journal of Raman Spectroscopy</i> , 2017 , 48, 1182-1189	2.3	6
50	Novel aluminum near field transducer and highly integrated micro-nano-optics design for heat-assisted ultra-high-density magnetic recording. <i>Nanotechnology</i> , 2014 , 25, 295202	3.4	6
49	Plasmonic properties of gold nanoparticles can promote neuronal activity 2013 ,		6
48	Confocal fluorescence polarization microscopy for linear unmixing of spectrally similar labels. <i>Micron</i> , 2009 , 40, 212-7	2.3	6
47	Pronounced anharmonicity in the classical high-Tc superconductor Nb3Sn. <i>Physica C: Superconductivity and Its Applications</i> , 1990 , 167, 415-422	1.3	6

46	Hybrid optogenetic and electrical stimulation for greater spatial resolution and temporal fidelity of cochlear activation. <i>Journal of Neural Engineering</i> , 2020 , 17, 056046	5	6
45	Polycaprolactone porous template facilitates modulated release of molecules from alginate hydrogels. <i>Reactive and Functional Polymers</i> , 2018 , 133, 29-36	4.6	6
44	Whole cell patch clamp for investigating the mechanisms of infrared neural stimulation. <i>Journal of Visualized Experiments</i> , 2013 ,	1.6	5
43	Changes in spectral properties of fibre Bragg gratings owing to bending. <i>Electronics Letters</i> , 2011 , 47, 558	1.1	5
42	First-approximation simulation of dopant diffusion in nanostructured silica optical fibres. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2008 , 6, 167-177	2.6	5
41	Reduction of polarization-induced artifacts in grating-based spectrometers. <i>Applied Optics</i> , 2005 , 44, 6123-30	1.7	5
40	Effect of embedded optical fibres on the mechanical properties of cochlear electrode arrays. <i>Medical Engineering and Physics</i> , 2016 , 38, 155-62	2.4	5
39	Internet of Things-based Hydrocarbon Sensing for Real-time Environmental Monitoring 2019 ,		4
38	Parametric study of surface melting in zinc-aluminium coated steels. <i>International Journal of Surface Science and Engineering</i> , 2014 , 8, 124	1	4
37	Nanoimprinting on optical fiber end faces for chemical sensing 2008 ,		4
36	Evanescently coupled dewpoint sensor based on a silicon waveguide. <i>Sensors and Actuators A: Physical</i> , 2006 , 128, 225-229	3.9	4
35	Thermal damage threshold of neurons during infrared stimulation. <i>Biomedical Optics Express</i> , 2020 , 11, 2224-2234	3.5	4
34	Towards Safer Primers: A Review. <i>Technologies</i> , 2019 , 7, 75	2.4	3
33	Nanoscale optical voltage sensing in biological systems. <i>Journal of Luminescence</i> , 2021 , 230, 117719	3.8	3
32	Optical Fibers: The Optical Fiber Tip: An Inherently Light-Coupled Microscopic Platform for Micro- and Nanotechnologies (Adv. Mater. 23/2014). <i>Advanced Materials</i> , 2014 , 26, 3797-3797	24	2
31	Effects of laser-exposed gold nanorods on biochemical pathways of neuronal cells 2013 ,		2
30	Nano-cone optical fiber array sensors for MiRNA profiling 2013 ,		2
29	Synthesis of Self-Assembled Island-Structured Complex Oxide Dielectric Films. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 16610-16614	3.8	2

28	Fluorescence-based distributed chemical sensing for structural health monitoring 2008 ,		2
27	Chemical sensors based on nanoparticle arrays 2002 , 4934, 61		2
26	Response of primary auditory neurons to stimulation with infrared light in vitro. <i>Journal of Neural Engineering</i> , 2021 , 18, 046003	5	2
25	Viral-mediated transduction of auditory neurons with opsins for optical and hybrid activation. <i>Scientific Reports</i> , 2021 , 11, 11229	4.9	2
24	. <i>Journal of Lightwave Technology</i> , 2018 , 36, 3999-4005	4	1
23	Nanofabrication of surface-enhanced Raman scattering substrates for optical fiber sensors 2013 ,		1
22	Infrared nerve stimulation: modelling of photon transport and heat conduction 2013 ,		1
21	Angle cleaving optical fibers using a CO2 laser 2010 ,		1
20	Trace Level Detection of Water Contamination by SERS 2010 ,		1
19	A low-cost and temperature-insensitive fibre Bragg grating sensor for monitoring localized strain concentrations. <i>Measurement Science and Technology</i> , 2009 , 20, 025201	2	1
18	Modeling of bend effects on fiber Bragg gratings 2012 ,		1
17	Nanostructured optical fibre for surface-enhanced Raman scattering sensing 2008 ,		1
16	Analysis of structured highlight stereo imaging for shape measurement of specular objects. <i>Optical Engineering</i> , 2007 , 46, 083601	1.1	1
15	Health monitoring of bonded composite repairs using fibre optic sensors 2006 ,		1
14	Development of an optical fiber SERS microprobe for minimally invasive sensing applications 2018 ,		1
13	Influence of the dielectric substrate on the effective optical constants of silver plasmonic films. <i>Applied Optics</i> , 2019 , 58, 6038-6044	1.7	1
12	Investigating Shape Comparison Tools for Benchmarking Differences in Product Appearance During Product Styling. <i>Smart Innovation, Systems and Technologies</i> , 2015 , 169-179	0.5	1
11	Surface-enhanced Raman scattering: effective optical constants for electric field modelling of nanostructured Ag films 2016 ,		1

10	Quantifying end-face quality of cleaved fibers: Femtosecond laser versus mechanical scribing. <i>Optics and Laser Technology</i> , 2021 , 141, 107111	4.2	1
9	Stimulation of Primary Auditory Neurons Mediated by Near-Infrared Excitation of Gold Nanorods. <i>Neuromethods</i> , 2018 , 25-38	0.4	0
8	Avalanching nanoparticles bring new light to cardiovascular imaging. <i>Cardiovascular Research</i> , 2021 , 117, e60-e63	9.9	0
7	Photothermal release and recovery of mesenchymal stem cells from substrates functionalized with gold nanorods. <i>Acta Biomaterialia</i> , 2021 , 129, 110-121	10.8	0
6	Dual U-shaped fibers refractometer with enhanced sensitivity based on the coupling effect. <i>Optical Fiber Technology</i> , 2022 , 71, 102935	2.4	0
5	Electrical Cell Stimulation: Fabrication of a Biocompatible Liquid Crystal Graphene Oxide/Gold Nanorods Electro- and Photoactive Interface for Cell Stimulation (Adv. Healthcare Mater. 9/2019). <i>Advanced Healthcare Materials</i> , 2019 , 8, 1970036	10.1	
4	MEMS micropump characterization and control utilizing a fibre optic Interferometer 2002 , 4935, 395		
3	User-Centered Design of Wearable Assistive Devices for the Aging Population 2018 , 538-561		
2	User-Centered Design of Wearable Assistive Devices for the Aging Population. <i>Advances in Medical Technologies and Clinical Practice Book Series</i> , 2016 , 130-153	0.3	
1	Tuning drug dosing through matching optically active polymer composition and NIR stimulation parameters. <i>International Journal of Pharmaceutics</i> , 2020 , 575, 118976	6.5	