Paul R Stoddart

List of Publications by Year in Descending Order

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

3,264 135 35 53 h-index g-index citations papers 160 3,827 5.1 5.43 L-index avg, IF ext. citations ext. papers

#	Paper	IF	Citations
135	Dual U-shaped fibers refractometer with enhanced sensitivity based on the coupling effect. <i>Optical Fiber Technology</i> , 2022 , 71, 102935	2.4	O
134	Response of primary auditory neurons to stimulation with infrared light in vitro. <i>Journal of Neural Engineering</i> , 2021 , 18, 046003	5	2
133	Avalanching nanoparticles bring new light to cardiovascular imaging. <i>Cardiovascular Research</i> , 2021 , 117, e60-e63	9.9	O
132	Viral-mediated transduction of auditory neurons with opsins for optical and hybrid activation. <i>Scientific Reports</i> , 2021 , 11, 11229	4.9	2
131	Photothermal release and recovery of mesenchymal stem cells from substrates functionalized with gold nanorods. <i>Acta Biomaterialia</i> , 2021 , 129, 110-121	10.8	O
130	Trends and Applications of U-Shaped Fiber Optic Sensors: A Review. <i>IEEE Sensors Journal</i> , 2021 , 21, 120	-1431	9
129	Nanoscale optical voltage sensing in biological systems. <i>Journal of Luminescence</i> , 2021 , 230, 117719	3.8	3
128	Quantifying end-face quality of cleaved fibers: Femtosecond laser versus mechanical scribing. <i>Optics and Laser Technology</i> , 2021 , 141, 107111	4.2	1
127	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
126	Critical Review of Transcutaneous Vagus Nerve Stimulation: Challenges for Translation to Clinical Practice. <i>Frontiers in Neuroscience</i> , 2020 , 14, 284	5.1	62
125	Patterning of biomaterials by aerosol jet printing: A parametric study. <i>Bioprinting</i> , 2020 , 18, e00081	7	6
124	Thermal damage threshold of neurons during infrared stimulation. <i>Biomedical Optics Express</i> , 2020 , 11, 2224-2234	3.5	4
123	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
122	Tuning drug dosing through matching optically active polymer composition and NIR stimulation parameters. <i>International Journal of Pharmaceutics</i> , 2020 , 575, 118976	6.5	
121	Theoretical Model and Design Considerations of U-Shaped Fiber Optic Sensors: A Review. <i>IEEE Sensors Journal</i> , 2020 , 20, 14578-14589	4	9
120	Nanomechanical Properties and Phase Behavior of Phenylalanine Amyloid Ribbon Assemblies and Amorphous Self-Healing Hydrogels. <i>ACS Applied Materials & Description of Phenylalanine Amyloid Ribbon Assemblies and Amorphous Self-Healing Hydrogels. ACS Applied Materials & Description of Phenylalanine Amyloid Ribbon Assemblies and Amorphous Self-Healing Hydrogels. ACS Applied Materials & Description of Phenylalanine Amyloid Ribbon Assemblies and Amorphous Self-Healing Hydrogels. ACS Applied Materials & Description of Phenylalanine Amyloid Ribbon Assemblies and Phase Behavior of Phenylalanine Amyloid Ribbon Assemblies and Amorphous Self-Healing Hydrogels. ACS Applied Materials & Description of Phenylalanine Amyloid Ribbon Assemblies and Phase Behavior of Phenylalanine Amyloid Ribbon Assemblies </i>	9.5	14
119	Electrical Cell Stimulation: Fabrication of a Biocompatible Liquid Crystal Graphene Oxide L iold Nanorods Electro- and Photoactive Interface for Cell Stimulation (Adv. Healthcare Mater. 9/2019). <i>Advanced Healthcare Materials</i> , 2019 , 8, 1970036	10.1	

(2016-2019)

118	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
117	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
116	Internet of Things-based Hydrocarbon Sensing for Real-time Environmental Monitoring 2019,		4
115	Biological Considerations of Optical Interfaces for Neuromodulation. <i>Advanced Optical Materials</i> , 2019 , 7, 1900385	8.1	9
114	Towards Safer Primers: A Review. <i>Technologies</i> , 2019 , 7, 75	2.4	3
113	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
112	Stimulation of Primary Auditory Neurons Mediated by Near-Infrared Excitation of Gold Nanorods. <i>Neuromethods</i> , 2018 , 25-38	0.4	O
111	. Journal of Lightwave Technology, 2018 , 36, 3999-4005	4	1
110	User-Centered Design of Wearable Assistive Devices for the Aging Population 2018, 538-561		
109	Development of an optical fiber SERS microprobe for minimally invasive sensing applications 2018,		1
108	Polycaprolactone porous template facilitates modulated release of molecules from alginate hydrogels. <i>Reactive and Functional Polymers</i> , 2018 , 133, 29-36	4.6	6
107	From Fundamental toward Applied SERS: Shared Principles and Divergent Approaches. <i>Advanced Optical Materials</i> , 2018 , 6, 1800292	8.1	39
106	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
105	Nano-rescaling of gold films on polystyrene: thermal management for SERS. <i>Nanoscale</i> , 2017 , 9, 690-69.	⁵ 7.7	16
104	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
103	Gold Nanoparticles for Modulating Neuronal Behavior. <i>Nanomaterials</i> , 2017 , 7,	5.4	45
102	Raman spectroscopic identification of single bacterial cells at different stages of their lifecycle. <i>Vibrational Spectroscopy</i> , 2016 , 86, 81-89	2.1	20
101	Microstructural refinement of aluminium-zinc-silicon coated steels. <i>Surface and Coatings Technology</i> , 2016 , 306, 490-496	4.4	8

100	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
99	Analysis of defects patterned by femtosecond pulses inside KBr and SiO2 glass. <i>Applied Physics A: Materials Science and Processing</i> , 2016 , 122, 1	2.6	12
98	Light-induced reflectivity transients in black-Si nanoneedles. <i>Solar Energy Materials and Solar Cells</i> , 2016 , 144, 221-227	6.4	12
97	Effective optical constants of anisotropic silver nanoparticle films with plasmonic properties. <i>Optics Letters</i> , 2016 , 41, 5495-5498	3	14
96	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	
95	Effect of embedded optical fibres on the mechanical properties of cochlear electrode arrays. Medical Engineering and Physics, 2016, 38, 155-62	2.4	5
94	Surface-enhanced Raman scattering: effective optical constants for electric field modelling of nanostructured Ag films 2016 ,		1
93	Electric field induced surface-enhanced Raman spectroscopy for multianalyte detection. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 7095-9	3.6	8
92	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
91	Versatile SERS sensing based on black silicon. <i>Optics Express</i> , 2015 , 23, 6763-72	3.3	57
90	Black-CuO: surface-enhanced Raman scattering and infrared properties. <i>Nanoscale</i> , 2015 , 7, 18299-304	7.7	22
89	Statistically quantified measurement of an Alzheimer marker by surface-enhanced Raman scattering. <i>Journal of Biophotonics</i> , 2015 , 8, 567-74	3.1	29
88	Black silicon as a platform for bacterial detection. <i>Biomicrofluidics</i> , 2015 , 9, 061101	3.2	7
88	Black silicon as a platform for bacterial detection. <i>Biomicrofluidics</i> , 2015 , 9, 061101 Gold Nanorod-assisted Optical Stimulation of Neuronal Cells. <i>Journal of Visualized Experiments</i> , 2015 ,	3.2 1.6	7
	Gold Nanorod-assisted Optical Stimulation of Neuronal Cells. <i>Journal of Visualized Experiments</i> ,		
87	Gold Nanorod-assisted Optical Stimulation of Neuronal Cells. <i>Journal of Visualized Experiments</i> , 2015 , Corrosion of carbon steel by sulphate reducing bacteria: Initial attachment and the role of ferrous	1.6	7
8 ₇ 86	Gold Nanorod-assisted Optical Stimulation of Neuronal Cells. <i>Journal of Visualized Experiments</i> , 2015 , Corrosion of carbon steel by sulphate reducing bacteria: Initial attachment and the role of ferrous ions. <i>Corrosion Science</i> , 2015 , 93, 48-57 Metallic nanoparticles for peripheral nerve regeneration: is it a feasible approach?. <i>Neural</i>	1.6 6.8	7 72

(2013-2014)

82	Gold-nanorod-assisted near-infrared stimulation of primary auditory neurons. <i>Advanced Healthcare Materials</i> , 2014 , 3, 1862-8	10.1	97	
81	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	
80	Parametric study of surface melting in zinc-aluminium coated steels. <i>International Journal of Surface Science and Engineering</i> , 2014 , 8, 124	1	4	
79	Optical Stimulation of Neurons. <i>Current Molecular Imaging</i> , 2014 , 3, 162-177		65	
78	Diffraction-limited ultrasensitive molecular nano-arrays with singular nano-cone scattering. <i>Biomicrofluidics</i> , 2014 , 8, 021101	3.2	7	
77	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	
76	Optical Fibers: The Optical Fiber Tip: An Inherently Light-Coupled Microscopic Platform for Microand Nanotechnologies (Adv. Mater. 23/2014). <i>Advanced Materials</i> , 2014 , 26, 3797-3797	24	2	
75	Nanoparticle-enhanced infrared neural stimulation. <i>Journal of Neural Engineering</i> , 2014 , 11, 065002	5	26	
74	Laser exposure of gold nanorods can induce intracellular calcium transients. <i>Journal of Biophotonics</i> , 2014 , 7, 761-5	3.1	53	
73	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	
72	Nanofabrication of surface-enhanced Raman scattering substrates for optical fiber sensors 2013,		1	
71	Improved methods for fluorescence background subtraction from Raman spectra. <i>Journal of Raman Spectroscopy</i> , 2013 , 44, 1587-1595	2.3	72	
70	Additional enhancement of electric field in surface-enhanced Raman Scattering due to Fresnel mechanism. <i>Scientific Reports</i> , 2013 , 3, 2335	4.9	45	
69	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	
68	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	
67	Laser exposure of gold nanorods can increase neuronal cell outgrowth. <i>Biotechnology and Bioengineering</i> , 2013 , 110, 2277-91	4.9	72	
66	In situ SERS probing of nano-silver coated individual yeast cells. <i>Biosensors and Bioelectronics</i> , 2013 , 49, 536-41	11.8	45	
65	Plasmonic properties of gold nanoparticles can promote neuronal activity 2013 ,		6	

64	Microfluidics and Raman microscopy: current applications and future challenges. <i>Chemical Society Reviews</i> , 2013 , 42, 5880-906	58.5	149
63	Surface-enhanced Raman scattering sensing on black silicon. <i>Annalen Der Physik</i> , 2013 , 525, 907-914	2.6	49
62	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
61	Infrared nerve stimulation: modelling of photon transport and heat conduction 2013,		1
60	Optical fibers for miniaturized surface-enhanced Raman-scattering probes. <i>Applied Optics</i> , 2013 , 52, 83	38 &:-9 3	13
59	Whole cell patch clamp for investigating the mechanisms of infrared neural stimulation. <i>Journal of Visualized Experiments</i> , 2013 ,	1.6	5
58	Modeling of the temporal effects of heating during infrared neural stimulation. <i>Journal of Biomedical Optics</i> , 2013 , 18, 035004	3.5	36
57	Effects of laser-exposed gold nanorods on biochemical pathways of neuronal cells 2013,		2
56	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
55	Nano-cone optical fiber array sensors for MiRNA profiling 2013 ,		2
54	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
53	Influence of electric field on SERS: frequency effects, intensity changes, and susceptible bonds. Journal of the American Chemical Society, 2012 , 134, 4646-53	16.4	36
52	Origins of Spectral Changes in Fiber Bragg Gratings Due to Macrobending. <i>Journal of Lightwave Technology</i> , 2012 , 30, 3500-3511	4	10
51	Laser fabricated ripple substrates for surface-enhanced Raman scattering. <i>Annalen Der Physik</i> , 2012 , 524, L5-L10	2.6	59
50	Modeling of light absorption in tissue during infrared neural stimulation. <i>Journal of Biomedical Optics</i> , 2012 , 17, 075002	3.5	43
49	Active control of silver nanoparticles spacing using dielectrophoresis for surface-enhanced Raman scattering. <i>Analytical Chemistry</i> , 2012 , 84, 4029-35	7.8	56
48	Light enhancement in surface-enhanced Raman scattering at oblique incidence. <i>Photonic Sensors</i> , 2012 , 2, 283-288	2.3	14
47	Collection efficiency of scattered light in single-ended optical fiber sensors. <i>Optics Letters</i> , 2012 ,	3	10

Modeling of bend effects on fiber Bragg gratings 2012, 46 7 Optical fiber sensor based on oblique angle deposition. Applied Optics, 2011, 50, 155-62 45 0.2 25 Effect of substrate temperature on the splat formation of flame sprayed polypropylene. Surface 8 44 4.4 and Coatings Technology, **2011**, 206, 1180-1187 Sub-15nm optical fiber nanoimprint lithography: A parallel, self-aligned and portable approach. 43 24 54 Advanced Materials, 2011, 23, 531-5 Dielectrophoresis-Raman spectroscopy system for analysing suspended nanoparticles. Lab on A 7.2 46 42 Chip. 2011. 11. 921-8 Molecular Imaging of Red Blood Cells by Raman Spectroscopy. Australian Journal of Chemistry, 8 41 1.2 **2011**, 64, 593 Changes in spectral properties of fibre Bragg gratings owing to bending. *Electronics Letters*, **2011**, 40 1.1 5 47, 558 Angle cleaving optical fibers using a CO2 laser 2010, 39 Trace Level Detection of Water Contamination by SERS 2010, 38 1 Distributed Fluorescence Sensing Using Exposed Core Microstructured Optical Fiber. IEEE Photonics 2.2 37 Technology Letters, 2010, 22, 1385-1387 Analysis of transmission mode of a matched fiber Bragg grating interrogation scheme. Applied 36 0.2 11 Optics, 2010, 49, 4498-505 Characterization of time-resolved fluorescence response measurements for distributed 0.2 35 optical-fiber sensing. Applied Optics, 2010, 49, 6385-90 Nanostructured optical fibre arrays for high-density biochemical sensing and remote imaging. 48 34 4.4 Analytical and Bioanalytical Chemistry, 2010, 396, 53-71 Differences in colonisation of five marine bacteria on two types of glass surfaces. Biofouling, 2009, 58 33 3.3 25, 621-31 A low-cost and temperature-insensitive fibre Bragg grating sensor for monitoring localized strain 2 32 1 concentrations. Measurement Science and Technology, 2009, 20, 025201 Nanoimprinted optical fibres: Biotemplated nanostructures for SERS sensing. Biosensors and 11.8 114 31 Bioelectronics, 2009, 24, 1531-5 Optical fibre SERS sensors. Analytical and Bioanalytical Chemistry, 2009, 394, 1761-74 30 4.4 73 Escherichia coli, Pseudomonas aeruginosa, and Staphylococcus aureus attachment patterns on 189 29 glass surfaces with nanoscale roughness. Current Microbiology, 2009, 58, 268-73

28	Confocal fluorescence polarization microscopy for linear unmixing of spectrally similar labels. <i>Micron</i> , 2009 , 40, 212-7	2.3	6
27	Synthesis of Self-Assembled Island-Structured Complex Oxide Dielectric Films. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 16610-16614	3.8	2
26	Nano-structured surfaces control bacterial attachment 2008,		8
25	Nanostructured optical fibre for surface-enhanced Raman scattering sensing 2008,		1
24	Fluorescence-based distributed chemical sensing for structural health monitoring 2008,		2
23	Nanoimprinting on optical fiber end faces for chemical sensing 2008,		4
22	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
21	Impact of nano-topography on bacterial attachment. <i>Biotechnology Journal</i> , 2008 , 3, 536-44	5.6	146
20	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
19	Analysis of structured highlight stereo imaging for shape measurement of specular objects. <i>Optical Engineering</i> , 2007 , 46, 083601	1.1	1
18	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
17	Health monitoring of bonded composite repairs using fibre optic sensors 2006,		1
16	Strain-based health assessment of bonded composite repairs. <i>Composite Structures</i> , 2006 , 76, 234-242	5.3	26
15	Evanescently coupled dewpoint sensor based on a silicon waveguide. <i>Sensors and Actuators A: Physical</i> , 2006 , 128, 225-229	3.9	4
14	Reduction of polarization-induced artifacts in grating-based spectrometers. <i>Applied Optics</i> , 2005 , 44, 6123-30	1.7	5
13	Nanostructured optical fiber with surface-enhanced Raman scattering functionality. <i>Optics Letters</i> , 2005 , 30, 598-600	3	56
12	Fibre optic distributed temperature sensor with an integrated background correction function. <i>Measurement Science and Technology</i> , 2005 , 16, 1299-1304	2	24
11	MEMS micropump characterization and control utilizing a fibre optic Interferometer 2002 , 4935, 395		

Chemical sensors based on nanoparticle arrays 2002, 4934, 61 10 2 High-temperature elastic properties of a nickel-based superalloy studied by surface Brillouin 1.8 9 25 scattering. Journal of Physics Condensed Matter, 2001, 13, 2281-2294 8 Surface Brillouin scattering of opaque solids and thin supported films. Ultrasonics, 2000, 38, 450-8 3.5 20 Quasielastic light scattering in silicon. Physical Review B, 2000, 62, 15383-15385 3.3 Accumulation of radioactive corrosion products on steel surfaces of VVER type nuclear reactors. I. 6 36 3.3 110mAg. Journal of Nuclear Materials, 1999, 265, 273-284 Surface Brillouin scattering study of the surface excitations in amorphous silicon layers produced 85 3.3 by ion bombardment. Physical Review B, 1998, 58, 13677-13685 High-temperature studies of surface acoustic wave velocities in silicon by Brillouin scattering. 2.8 11 4 Physica B: Condensed Matter, **1996**, 219-220, 717-719 Brillouin-scattering measurements of surface-acoustic-wave velocities in silicon at high 3.3 27 temperatures. *Physical Review B*, **1995**, 51, 17574-17578 High-temperature elastic constants of yttrium aluminum garnet. Journal of Applied Physics, 1993, 2.5 35 73, 7298-7301 Pronounced anharmonicity in the classical high-Tc superconductor Nb3Sn. Physica C: 6 1.3 Superconductivity and Its Applications, 1990, 167, 415-422