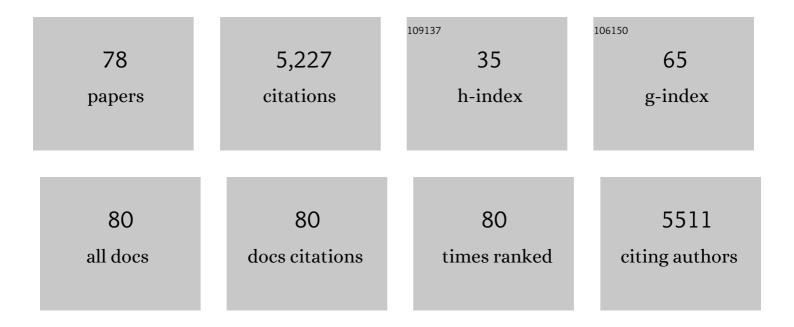
David A Simpson

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/1943480/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Rituximab maintenance for 2 years in patients with high tumour burden follicular lymphoma responding to rituximab plus chemotherapy (PRIMA): a phase 3, randomised controlled trial. Lancet, The, 2011, 377, 42-51.	6.3	957
2	Quantum measurement and orientation tracking of fluorescent nanodiamonds inside living cells. Nature Nanotechnology, 2011, 6, 358-363.	15.6	552
3	Diamond-based single-photon emitters. Reports on Progress in Physics, 2011, 74, 076501.	8.1	462
4	Electronic Properties and Metrology Applications of the Diamond <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msup><mml:mrow><mml:mi>NV</mml:mi></mml:mrow><mml:mrow><n under Pressure. Physical Review Letters, 2014, 112, 047601.</n </mml:mrow></mml:msup></mml:mrow></mml:math 	ıml:mö>â^'	
5	Quantum imaging of current flow in graphene. Science Advances, 2017, 3, e1602429.	4.7	185
6	High spatial and temporal resolution wide-field imaging of neuron activity using quantum NV-diamond. Scientific Reports, 2012, 2, 401.	1.6	141
7	Two-Level Ultrabright Single Photon Emission from Diamond Nanocrystals. Nano Letters, 2009, 9, 3191-3195.	4.5	132
8	Dynamic Stabilization of the Optical Resonances of Single Nitrogen-Vacancy Centers in Diamond. Physical Review Letters, 2012, 108, 206401.	2.9	113
9	Detection of atomic spin labels in a lipid bilayer using a single-spin nanodiamond probe. Proceedings of the United States of America, 2013, 110, 10894-10898.	3.3	113
10	Non-Neurotoxic Nanodiamond Probes for Intraneuronal Temperature Mapping. ACS Nano, 2017, 11, 12077-12086.	7.3	113
11	Chromium single-photon emitters in diamond fabricated by ion implantation. Physical Review B, 2010, 81, .	1.1	97
12	Nanomechanical Sensing Using Spins in Diamond. Nano Letters, 2017, 17, 1496-1503.	4.5	95
13	Detection of nanoscale electron spin resonance spectra demonstrated using nitrogen-vacancy centre probes in diamond. Nature Communications, 2016, 7, 10211.	5.8	89
14	Engineering of nitrogen-vacancy color centers in high purity diamond by ion implantation and annealing. Journal of Applied Physics, 2011, 109, .	1.1	84
15	Scanning Nanospin Ensemble Microscope for Nanoscale Magnetic and Thermal Imaging. Nano Letters, 2016, 16, 326-333.	4.5	79
16	Spin properties of dense near-surface ensembles of nitrogen-vacancy centers in diamond. Physical Review B, 2018, 97, .	1.1	76
17	Nano-manipulation of diamond-based single photon sources. Optics Express, 2009, 17, 11287.	1.7	75
18	Magneto-optical imaging of thin magnetic films using spins in diamond. Scientific Reports, 2016, 6, 22797.	1.6	75

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#	Article	IF	CITATIONS
19	Enhanced single-photon emission in the near infrared from a diamond color center. Physical Review B, 2009, 79, .	1.1	71
20	Photophysics of chromium-related diamond single-photon emitters. Physical Review A, 2010, 81, .	1.0	71
21	Electron paramagnetic resonance microscopy using spins in diamond under ambient conditions. Nature Communications, 2017, 8, 458.	5.8	65
22	Visible and near infra-red up-conversion in Tm^3+/Yb^3+ co-doped silica fibers under 980 nm excitation. Optics Express, 2008, 16, 13781.	1.7	64
23	Ambient nanoscale sensing with single spins using quantum decoherence. New Journal of Physics, 2013, 15, 073042.	1.2	61
24	Diamond for neural interfacing: A review. Carbon, 2016, 102, 437-454.	5.4	61
25	Not All Fluorescent Nanodiamonds Are Created Equal: A Comparative Study. Particle and Particle Systems Characterization, 2019, 36, 1900009.	1.2	56
26	Quantum probe hyperpolarisation of molecular nuclear spins. Nature Communications, 2018, 9, 1246.	5.8	53
27	A highly efficient two level diamond based single photon source. Applied Physics Letters, 2009, 94, 203107.	1.5	52
28	Microscopic Imaging of the Stress Tensor in Diamond Using in Situ Quantum Sensors. Nano Letters, 2019, 19, 4543-4550.	4.5	51
29	Electrospun Nanodiamond–Silk Fibroin Membranes: A Multifunctional Platform for Biosensing and Wound-Healing Applications. ACS Applied Materials & Interfaces, 2020, 12, 48408-48419.	4.0	50
30	Wide-band nanoscale magnetic resonance spectroscopy using quantum relaxation of a single spin in diamond. Physical Review B, 2016, 94, .	1.1	44
31	Magnetically sensitive nanodiamond-doped tellurite glass fibers. Scientific Reports, 2018, 8, 1268.	1.6	44
32	In vivo imaging and tracking of individual nanodiamonds in drosophila melanogaster embryos. Biomedical Optics Express, 2014, 5, 1250.	1.5	43
33	Intrinsic fluorescence of selenium nanoparticles for cellular imaging applications. Nanoscale, 2016, 8, 3376-3385.	2.8	39
34	Reactive ion etching of waveguide structures in diamond. Diamond and Related Materials, 2008, 17, 1831-1834.	1.8	37
35	Fluorescent Nanodiamond Silk Fibroin Spheres: Advanced Nanoscale Bioimaging Tool. ACS Biomaterials Science and Engineering, 2015, 1, 1104-1113.	2.6	37
36	Impact of Surface Functionalization on the Quantum Coherence of Nitrogen-Vacancy Centers in Nanodiamonds. ACS Applied Materials & Interfaces, 2018, 10, 13143-13149.	4.0	36

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#	Article	IF	CITATIONS
37	Enhanced Widefield Quantum Sensing with Nitrogen-Vacancy Ensembles Using Diamond Nanopillar Arrays. ACS Applied Materials & Interfaces, 2020, 12, 13421-13427.	4.0	33
38	21^st-Century Applications of Nanodiamonds. Optics and Photonics News, 2010, 21, 20.	0.4	32
39	Energy transfer up-conversion in Tm3+-doped silica fiber. Journal of Non-Crystalline Solids, 2006, 352, 136-141.	1.5	31
40	Anticrossing Spin Dynamics of Diamond Nitrogen-Vacancy Centers and All-Optical Low-Frequency Magnetometry. Physical Review Applied, 2016, 6, .	1.5	28
41	Advances in the Surface Functionalization of Nanodiamonds for Biological Applications: A Review. ACS Applied Nano Materials, 2021, 4, 9985-10005.	2.4	28
42	Creation of nitrogen-vacancy centers in chemical vapor deposition diamond for sensing applications. New Journal of Physics, 2022, 24, 033030.	1.2	28
43	Quantum Magnetic Imaging of Iron Biomineralization in Teeth of the Chiton <i>Acanthopleura hirtosa</i> . Small Methods, 2020, 4, 1900754.	4.6	27
44	Towards single-molecule NMR detection and spectroscopy using single spins in diamond. Physical Review B, 2014, 89, .	1.1	26
45	Microwave-free nuclear magnetic resonance at molecular scales. Nature Communications, 2017, 8, 15950.	5.8	26
46	Near‧urface Spectrally Stable Nitrogen Vacancy Centres Engineered in Single Crystal Diamond. Advanced Materials, 2012, 24, 3333-3338.	11.1	25
47	Fluorescent diamond microparticle doped glass fiber for magnetic field sensing. APL Materials, 2020, 8, .	2.2	24
48	A practical guide to laboratory investigations at diagnosis and follow up in Waldenström macroglobulinaemia: recommendations from the Medical and Scientific Advisory Group, Myeloma Australia, the Pathology Sub-committee of the Lymphoma and Related Diseases Registry and the Australasian Association of Clinical Biochemists Monoclonal Gammopathy Working Group.	0.3	23
49	Pathology, 2020, 52, 167-178. Nanoscale sensing and imaging in biology using the nitrogen-vacancy center in diamond. MRS Bulletin, 2013, 38, 162-167.	1.7	22
50	Room-temperature single-photon emission from zinc oxide nanoparticle defects and their <i>in vitro</i> photostable intrinsic fluorescence. Nanophotonics, 2017, 6, 269-278.	2.9	18
51	Proximity-Induced Artefacts in Magnetic Imaging with Nitrogen-Vacancy Ensembles in Diamond. Sensors, 2018, 18, 1290.	2.1	18
52	Quantum Sensing in a Physiologicalâ€Like Cell Niche Using Fluorescent Nanodiamonds Embedded in Electrospun Polymer Nanofibers. Small, 2019, 15, e1900455.	5.2	18
53	Rapid, Highâ€Resolution Magnetic Microscopy of Single Magnetic Microbeads. Small, 2019, 15, 1805159.	5.2	16
54	Apparent delocalization of the current density in metallic wires observed with diamond nitrogen-vacancy magnetometry. Physical Review B, 2019, 99, .	1.1	14

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#	Article	IF	CITATIONS
55	Comparison of different methods of nitrogen-vacancy layer formation in diamond for wide-field quantum microscopy. Physical Review Materials, 2020, 4, .	0.9	14
56	Quantum magnetic imaging of iron organelles within the pigeon cochlea. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	14
57	Optimizing Optical Tweezers Experiments for Magnetic Resonance Sensing with Nanodiamonds. ACS Photonics, 2021, 8, 1214-1221.	3.2	13
58	Acoustomicrofluidic Concentration and Signal Enhancement of Fluorescent Nanodiamond Sensors. Analytical Chemistry, 2021, 93, 16133-16141.	3.2	12
59	Magnetic noise from ultrathin abrasively deposited materials on diamond. Physical Review Materials, 2018, 2, .	0.9	10
60	Estimation of energy transfer parameters in thulium- and ytterbium-doped silica fibers. , 2008, , .		9
61	Environmentally Mediated Coherent Control of a Spin Qubit in Diamond. Physical Review Letters, 2017, 118, 167204.	2.9	8
62	Manipulating the Quantum Coherence of Optically Trapped Nanodiamonds. ACS Photonics, 2018, 5, 4491-4496.	3.2	8
63	Re-examining ferritin-bound iron: current and developing clinical tools. Clinical Chemistry and Laboratory Medicine, 2021, 59, 459-471.	1.4	8
64	Preferential coupling of diamond NV centres in step-index fibres. Optics Express, 2021, 29, 14425.	1.7	5
65	An integrated widefield probe for practical diamond nitrogen-vacancy microscopy. Applied Physics Letters, 2021, 119, .	1.5	5
66	<title>Characterization of a thulium-doped silica-based optical fibre for S-band amplification</title> . , 2006, 6180, 181.		4
67	Quantum probes for biology: Unlocking single molecule dynamics. Nano Today, 2019, 24, 7-9.	6.2	3
68	Diamond waveguides: toward an all-diamond platform. , 2007, 6801, 89.		1
69	Room temperature single photon emission from zinc oxide nanoparticles formed by ion implantation in silica. , 2013, , .		1
70	Processing of Diamond: Towards All-Diamond Integrated Optics. , 2007, , .		0
71	Tm ³⁺ /Yb ³⁺ co-doped alumino-silicate fibre: potential for S-band optical amplification. , 2007, , .		0
72	Towards all-diamond optical devices. , 2010, , .		0

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#	Article	IF	CITATIONS
73	Quantum measurement in living cells: Fluorescent diamond nanocrystals for biology. , 2011, , .		0
74	Recent progress in diamond photonics. , 2012, , .		0
75	Fluorescent nanoparticles for biosensing applications. , 2013, , .		Ο
76	Magnetic Materials: Rapid, Highâ€Resolution Magnetic Microscopy of Single Magnetic Microbeads (Small) Tj ETC	2q000 rg	BT/Overlock

⁷⁷ Infrared induced photo-dynamics of NV centres in optically trapped nanodiamond. , 2018, , .

78 Imaging with NV ensembles: beyond magnetometry. , 2019, , .