Susan M Scott

List of Publications by Citations

51 papers	2,634 citations	19 h-index	51 g-index
61 ext. papers	3,319 ext. citations	5.4 avg, IF	2.79 L-index

#	Paper	IF	Citations
51	Enhanced sensitivity of the LIGO gravitational wave detector by using squeezed states of light. *Nature Photonics*, **2013**, 7, 613-619	33.9	572
50	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. *Living Reviews in Relativity*, **2018**, 21, 3	32.5	543
49	Prospects for Observing and Localizing Gravitational-Wave Transients with Advanced LIGO and Advanced Virgo. *Living Reviews in Relativity*, **2016**, 19, 1	32.5	393
48	Characterization of transient noise in Advanced LIGO relevant to gravitational wave signal GW150914. *Classical and Quantum Gravity*, **2016**, 33,	3.3	155
47	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. *Living Reviews in Relativity*, **2020**, 23, 3	32.5	144
46	Follow Up of GW170817 and Its Electromagnetic Counterpart by Australian-Led Observing Programmes. *Publications of the Astronomical Society of Australia*, **2017**, 34,	5.5	99
45	SEARCH FOR GRAVITATIONAL-WAVE INSPIRAL SIGNALS ASSOCIATED WITH SHORT GAMMA-RAY BURSTS DURING LIGO'S FIFTH AND VIRGO'S FIRST SCIENCE RUN. *Astrophysical Journal*, **2010**, 715, 1453-1461	4.7	79
44	Upper limits on a stochastic background of gravitational waves. *Physical Review Letters*, **2005**, 95, 221101	7.4	69
43	Searching for gravitational waves from Cassiopeia A with LIGO. *Classical and Quantum Gravity*, **2008**, 25, 235011	3.3	64
42	Neutron Star Extreme Matter Observatory: A kilohertz-band gravitational-wave detector in the global network. *Publications of the Astronomical Society of Australia*, **2020**, 37,	5.5	47
41	A Gravitational-wave Measurement of the Hubble Constant Following the Second Observing Run of Advanced LIGO and Virgo. *Astrophysical Journal*, **2021**, 909, 218	4.7	46
40	The basic physics of the binary black hole merger GW150914. *Annalen Der Physik*, **2017**, 529, 1600209	2.6	45
39	Search for Gravitational Waves Associated with Gamma-Ray Bursts during the First Advanced LIGO Observing Run and Implications for the Origin of GRB 150906B. *Astrophysical Journal*, **2017**, 841, 89	4.7	42
38	The Curzon singularity. I: Spatial sections. *General Relativity and Gravitation*, **1986**, 18, 557-570	2.3	41
37	Search for gravitational-wave bursts in LIGO's third science run. *Classical and Quantum Gravity*, **2006**, 23, S29-S39	3.3	36
36	The abstract boundary□ new approach to singularities of manifolds. *Journal of Geometry and Physics*, **1994**, 13, 223-253	1.2	35
35	The Curzon singularity. II: Global picture. *General Relativity and Gravitation*, **1986**, 18, 571-583	2.3	27

34	The Chimera An Off-The-Shelf CPU/GPGPU/FPGA Hybrid Computing Platform. *International Journal of Reconfigurable Computing*, **2012**, 2012, 1-10	2.1	21
33	The Science benefits and preliminary design of the southern hemisphere gravitational wave detector AIGO. *Journal of Physics: Conference Series*, **2008**, 122, 012001	0.3	20
32	Gingin High Optical Power Test Facility. *Journal of Physics: Conference Series*, **2006**, 32, 368-373	0.3	19
31	AIGO: a southern hemisphere detector for the worldwide array of ground-based interferometric gravitational wave detectors. *Classical and Quantum Gravity*, **2010**, 27, 084005	3.3	17
30	Status of the Australian Consortium for Interferometric Gravitational Astronomy. *Classical and Quantum Gravity*, **2006**, 23, S41-S49	3.3	14
29	Network sensitivity to geographical configuration. *Classical and Quantum Gravity*, **2002**, 19, 1465-1470	3.3	13
28	Quantum-field dynamics of expanding and contracting Bose-Einstein condensates. *Physical Review A*, **2008**, 77,	2.6	10
27	Optimal location of a new interferometric gravitational wave observatory. *Physical Review D*, **2006**, 73,	4.9	9
26	Spectral line removal in the LIGO Data Analysis System (LDAS). *Classical and Quantum Gravity*, **2003**, 20, S721-S730	3.3	7
25	Second-generation laser interferometry for gravitational wave detection: ACIGA progress. *Classical and Quantum Gravity*, **2001**, 18, 4121-4126	3.3	6
24	The attached point topology of the abstract boundary for spacetime. *Classical and Quantum Gravity* , **2011**, 28, 165003	3.3	5
23	Technology developments for ACIGA high power test facility for advanced interferometry. *Classical and Quantum Gravity*, **2005**, 22, S199-S208	3.3	5
22	SkyMapper optical follow-up of gravitational wave triggers: Alert science data pipeline and LIGO/Virgo O3 run. *Publications of the Astronomical Society of Australia*, **2021**, 38,	5.5	5
21	Generalizations of the abstract boundary singularity theorem. *Classical and Quantum Gravity*, **2015**, 32, 135001	3.3	4
20	Encoding cosmological futures with conformal structures. *Classical and Quantum Gravity*, **2009**, 26, 035019	3.3	4
19	Curvature singularities and abstract boundary singularity theorems for space-time. *Contemporary Mathematics*, **2003**, 9-19	1.6	4
18	THE AIGO PROJECT. *International Journal of Modern Physics D*, **2011**, 20, 2087-2092	2.2	3
17	QUIESCENT COSMOLOGY AND THE FINAL STATE OF THE UNIVERSE. *International Journal of Modern Physics D*, **2008**, 17, 571-576	2.2	3

16	Functional programming framework for GRworkbench. *General Relativity and Gravitation*, **2005**, 37, 1517-1528	2.3	3
15	A geometric theory of shell singularities. *Classical and Quantum Gravity*, **1994**, 11, 2761-2779	3.3	3
14	The strongly attached point topology of the abstract boundary for space-time. *Classical and Quantum Gravity*, **2014**, 31, 125004	3.3	2
13	A correspondence between distances and embeddings for manifolds: New techniques for applications of the Abstract Boundary. *Journal of Geometry and Physics*, **2011**, 61, 927-939	1.2	2
12	The ACIGA data analysis programme. *Classical and Quantum Gravity*, **2004**, 21, S853-S856	3.3	2
11	Smart Geodesic Tracing in GRworkbench. *General Relativity and Gravitation*, **2002**, 34, 1675-1684	2.3	2
10	General Properties of Cosmological Models with an Isotropic Singularity. *General Relativity and Gravitation*, **2002**, 34, 1657-1673	2.3	2
9	Isotropic Singularities in Shear-free Perfect Fluid Cosmologies. *General Relativity and Gravitation*, **2000**, 32, 425-443	2.3	2
8	DEVELOPMENTS IN GRworkbench **2006**,		2
7	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA **2018**, 21, 1		2
6	Invariance properties of boundary sets of open embeddings of manifolds and their application to the abstract boundary. *Contemporary Mathematics*, **1994**, 79-111	1.6	2
5	Status of ACIGA High Power Test Facility for advanced interferometry **2004**,		1
4	An analysis pipeline for correlated global environmental noise. *Classical and Quantum Gravity*, **2005**, 22, S1079-S1086	3.3	1
3	Noise Characterization for Laser Interferometer Gravitational Wave Detectors. *General Relativity and Gravitation*, **2000**, 32, 411-423	2.3	1
2	The endpoint theorem *. *Classical and Quantum Gravity*, **2021**, 38, 065012	3.3	0
1	Cosmological milestones, conformal frameworks and quiescent cosmology.. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2022**, 380, 20210172	3	