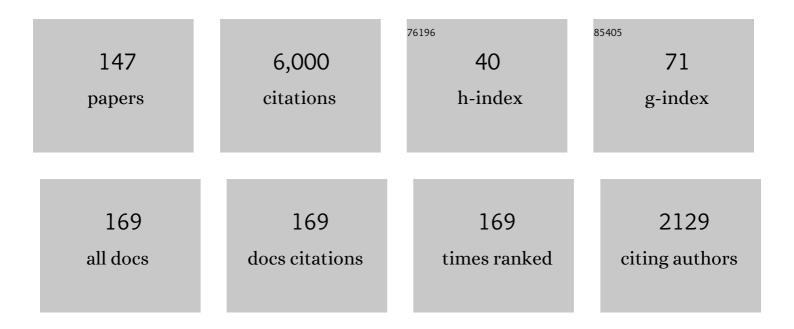
George F R Ellis

List of Publications by Year in descending order

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GEORGE F R FLUS

| # | Article | IF | CITATIONS |
|----|--|-------------|----------------|
| 1 | The emergent universe: inflationary cosmology with no singularity. Classical and Quantum Gravity, 2004, 21, 223-232. | 1.5 | 368 |
| 2 | The emergent universe: an explicit construction. Classical and Quantum Gravity, 2004, 21, 233-249. | 1.5 | 257 |
| 3 | Republication of: Relativistic cosmology. General Relativity and Gravitation, 2009, 41, 581-660. | 0.7 | 238 |
| 4 | Cosmological perturbations and the physical meaning of gauge-invariant variables. Astrophysical Journal, 1992, 395, 34. | 1.6 | 204 |
| 5 | An emergent universe from a loop. Physical Review D, 2005, 71, . | 1.6 | 186 |
| 6 | Does the growth of structure affect our dynamical models of the Universe? The averaging, backreaction, and fitting problems in cosmology. Reports on Progress in Physics, 2011, 74, 112901. | 8.1 | 161 |
| 7 | Scientific method: Defend the integrity of physics. Nature, 2014, 516, 321-323. | 13.7 | 156 |
| 8 | On the trace-free Einstein equations as a viable alternative to general relativity. Classical and Quantum Gravity, 2011, 28, 225007. | 1.5 | 154 |
| 9 | Time Drift of Cosmological Redshifts as a Test of the Copernican Principle. Physical Review Letters, 2008, 100, 191303. | 2.9 | 145 |
| 10 | On the stability of the Einstein static universe. Classical and Quantum Gravity, 2003, 20, L155-L164. | 1.5 | 133 |
| 11 | Cosmological Models. , 1999, , 1-116. | | 129 |
| 12 | Top-down causation and emergence: some comments on mechanisms. Interface Focus, 2012, 2, 126-140. | 1.5 | 128 |
| 13 | Physics, complexity and causality. Nature, 2005, 435, 743-743. | 13.7 | 119 |
| 14 | c is the speed of light, isn't it?. American Journal of Physics, 2005, 73, 240-247. | 0.3 | 118 |
| 15 | The covariant approach to LRS perfect fluid spacetime geometries. Classical and Quantum Gravity, 1996, 13, 1099-1127. | 1.5 | 115 |
| 16 | On the definition of distance in general relativity: I. M. H. Etherington (Philosophical Magazine ser. 7,) Tj ETQq0 (| 0 o rgBT /C | Overlock 10 Tf |
| 17 | Covariant perturbations in a multifluid cosmological medium. Astrophysical Journal, 1992, 395, 54. | 1.6 | 109 |

Past attractor in inhomogeneous cosmology. Physical Review D, 2003, 68, .

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| 19 | (Mis)interpreting supernovae observations in a lumpy universe. Monthly Notices of the Royal Astronomical Society, 2012, 426, 1121-1136. | 1.6 | 94 |
| 20 | On the nature of causation in complex systems. Transactions of the Royal Society of South Africa, 2008, 63, 69-84. | 0.8 | 89 |
| 21 | Covariant analysis of gravitational waves in a cosmological context. Classical and Quantum Gravity, 1997, 14, 1215-1222. | 1.5 | 88 |
| 22 | The trace-free Einstein equations and inflation. General Relativity and Gravitation, 2014, 46, 1. | 0.7 | 88 |
| 23 | Wilkinson Microwave Anisotropy Probe data and the curvature of space. Monthly Notices of the Royal Astronomical Society, 2003, 344, L65-L68. | 1.6 | 87 |
| 24 | Cosmic microwave background anisotropies: Nonlinear dynamics. Physical Review D, 1999, 59, . | 1.6 | 86 |
| 25 | Integrability of irrotational silent cosmological models. Classical and Quantum Gravity, 1997, 14, 1151-1162. | 1.5 | 82 |
| 26 | Causality and the speed of sound. General Relativity and Gravitation, 2007, 39, 1651-1660. | 0.7 | 82 |
| 27 | Inhomogeneity effects in cosmology. Classical and Quantum Gravity, 2011, 28, 164001. | 1.5 | 79 |
| 28 | Limits on anisotropy and inhomogeneity from the cosmic background radiation. Physical Review D, 1995, 51, 1525-1535. | 1.6 | 72 |
| 29 | Top-down causation: an integrating theme within and across the sciences?. Interface Focus, 2012, 2, 1-3. | 1.5 | 66 |
| 30 | The case for an open Universe. Nature, 1994, 370, 609-615. | 13.7 | 60 |
| 31 | A gravitational entropy proposal. Classical and Quantum Gravity, 2013, 30, 125009. | 1.5 | 58 |
| 32 | Relativistic effects in superluminal jets and neutron star winds. Astrophysical Journal, 1990, 361, 470. | 1.6 | 55 |
| 33 | Physics and the Real World. Physics Today, 2005, 58, 49-54. | 0.3 | 53 |
| 34 | Blackness of the cosmic microwave background spectrum as a probe of the distance-duality relation. Physical Review D, 2013, 87, . | 1.6 | 51 |
| 35 | Evolution of the density parameter in inflationary cosmology reexamined. Physical Review D, 1992, 46, 1399-1415. | 1.6 | 50 |
| 36 | Quasi-Newtonian dust cosmologies. Classical and Quantum Gravity, 1998, 15, 3545-3573. | 1.5 | 48 |

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| 37 | ISSUES IN THE PHILOSOPHY OF COSMOLOGY. , 2007, , 1183-1285. | | 48 |
| 38 | Bounce behaviour in Kantowski–Sachs and Bianchi cosmologies. Classical and Quantum Gravity, 2006, 23, 6585-6597. | 1.5 | 44 |
| 39 | Newtonian-like and anti-Newtonian universes. Classical and Quantum Gravity, 1998, 15, 1005-1017. | 1.5 | 43 |
| 40 | Physics in the real universe: time and spacetime. General Relativity and Gravitation, 2006, 38, 1797-1824. | 0.7 | 43 |
| 41 | Local freedom in the gravitational field. Classical and Quantum Gravity, 1997, 14, 1927-1936. | 1.5 | 42 |
| 42 | The physics of infinity. Nature Physics, 2018, 14, 770-772. | 6.5 | 42 |
| 43 | Disgust: Sensory affect or primary emotional system?. Cognition and Emotion, 2007, 21, 1799-1818. | 1.2 | 37 |
| 44 | Gravity and Signature Change. General Relativity and Gravitation, 1997, 29, 591-597. | 0.7 | 34 |
| 45 | 83 years of general relativity and cosmology: progress and problems. Classical and Quantum Gravity, 1999, 16, A37-A75. | 1.5 | 34 |
| 46 | Note on varying speed of light cosmologies. General Relativity and Gravitation, 2007, 39, 511-520. | 0.7 | 33 |
| 47 | "Golden Oldie― The Bianchi Classification in the Schücking-Behr Approach. General Relativity and Gravitation, 2003, 35, 475-489. | 0.7 | 32 |
| 48 | The Dynamical Emergence of Biology From Physics: Branching Causation via Biomolecules. Frontiers in Physiology, 2019, 9, 1966. | 1.3 | 32 |
| 49 | A two-mass expanding exact space-time solution. General Relativity and Gravitation, 2011, 43, 191-205. | 0.7 | 28 |
| 50 | Editorial note to: Brandon Carter, Large number coincidences and the anthropic principle in cosmology. General Relativity and Gravitation, 2011, 43, 3213-3223. | 0.7 | 28 |
| 51 | Contextual Wavefunction collapse: an integrated theory of quantum measurement. New Journal of Physics, 2018, 20, 113025. | 1.2 | 28 |
| 52 | On general and restricted covariance in general relativity. General Relativity and Gravitation, 1996, 28, 1251-1267. | 0.7 | 27 |
| 53 | Holonomy in the Schwarzschild-Droste geometry. Classical and Quantum Gravity, 2001, 18, 1217-1233. | 1.5 | 26 |
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13.7 26

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| 55 | Geometrical order-of-magnitude estimates for spatial curvature in realistic models of the Universe. General Relativity and Gravitation, 2009, 41, 2017-2030. | 0.7 | 26 |
| 56 | Shear free solutions in general relativity theory. General Relativity and Gravitation, 2011, 43, 3253-3268. | 0.7 | 26 |
| 57 | Consistency of dust solutions with divH=0. Physical Review D, 1997, 55, 5219-5221. | 1.6 | 25 |
| 58 | Universe or multiverse?. Astronomy and Geophysics, 2008, 49, 2.29-2.33. | 0.1 | 25 |
| 59 | Time and Spacetime: The Crystallizing Block Universe. International Journal of Theoretical Physics, 2010, 49, 988-1003. | 0.5 | 25 |
| 60 | How Can Physics Underlie the Mind?. The Frontiers Collection, 2016, , . | 0.1 | 23 |
| 61 | Affective Neuronal Selection: The Nature of the Primordial Emotion Systems. Frontiers in Psychology, 2012, 3, 589. | 1.1 | 22 |
| 62 | The evolving block universe and the meshing together of times. Annals of the New York Academy of Sciences, 2014, 1326, 26-41. | 1.8 | 22 |
| 63 | Cosmic matter flux may turn Hawking radiation off. General Relativity and Gravitation, 2015, 47, 1. | 0.7 | 22 |
| 64 | On the Raychaudhuri equation. Pramana - Journal of Physics, 2007, 69, 15-22. | 0.9 | 21 |
| 65 | Almost Birkhoff theorem in general relativity. General Relativity and Gravitation, 2011, 43, 2157-2170. | 0.7 | 21 |
| 66 | Static trace free Einstein equations and stellar distributions. Physical Review D, 2017, 96, . | 1.6 | 21 |
| 67 | A theory of everything?. Nature, 2005, 433, 257-259. | 13.7 | 20 |
| 68 | Discrete Newtonian cosmology. Classical and Quantum Gravity, 2014, 31, 025003. | 1.5 | 19 |
| 69 | General relativistic analysis of peculiar velocities. Classical and Quantum Gravity, 2001, 18, 5115-5123. | 1.5 | 18 |
| 70 | Geodesic instability and isotropy of CMWBR. Classical and Quantum Gravity, 1994, 11, 675-688. | 1.5 | 16 |
| 71 | THE GEOMETRY OF CLASSICAL CHANGE OF SIGNATURE. International Journal of Modern Physics D, 1995, 04, 175-187. | 0.9 | 16 |
| 72 | Partially locally rotationally symmetric perfect fluid cosmologies. Classical and Quantum Gravity, 2000, 17, 3135-3156. | 1.5 | 16 |

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| 73 | The shape of the Universe. Nature, 2003, 425, 566-567. | 13.7 | 16 |
| 74 | Criteria for basic emotions: Seeking DISCUST?. Cognition and Emotion, 2007, 21, 1829-1832. | 1.2 | 16 |
| 75 | Birkhoff theorem and matter. General Relativity and Gravitation, 2012, 44, 2037-2050. | 0.7 | 16 |
| 76 | The Causal Closure of Physics in Real World Contexts. Foundations of Physics, 2020, 50, 1057-1097. | 0.6 | 16 |
| 77 | Causal propagation of geometrical fields in relativistic cosmology. Physical Review D, 1998, 59, . | 1.6 | 15 |
| 78 | Closed Trapped Surfaces in Cosmology. General Relativity and Gravitation, 2003, 35, 1309-1319. | 0.7 | 15 |
| 79 | Emergence in Solid State Physics and Biology. Foundations of Physics, 2020, 50, 1098-1139. | 0.6 | 15 |
| 80 | Note on Signature Change and Colombeau Theory. General Relativity and Gravitation, 2001, 33, 1041-1046. | 0.7 | 14 |
| 81 | Nonperturbative gravitomagnetic fields. Physical Review D, 1999, 60, . | 1.6 | 13 |
| 82 | Physics and the Real World. Foundations of Physics, 2006, 36, 227-262. | 0.6 | 13 |
| 83 | How Downwards Causation Occurs in Digital Computers. Foundations of Physics, 2019, 49, 1253-1277. | 0.6 | 13 |
| 84 | COSMOLOGY AND LOCAL PHYSICS. International Journal of Modern Physics A, 2002, 17, 2667-2671. | 0.5 | 12 |
| 85 | Variations on Birkhoff's theorem. General Relativity and Gravitation, 2013, 45, 2123-2142. | 0.7 | 11 |
| 86 | The elusive anthropic principle. Nature, 1989, 337, 411-412. | 13.7 | 10 |
| 87 | Relativistic Cosmology 1999: Issues and Problems. General Relativity and Gravitation, 2000, 32, 1135-1158. | 0.7 | 10 |
| 88 | Commentary on "An Evolutionarily Informed Education Science―by David C. Geary. Educational Psychologist, 2008, 43, 206-213. | 4.7 | 10 |
| 89 | Top-down effects in the brain. Physics of Life Reviews, 2019, 31, 11-27. | 1.5 | 10 |
| 90 | Contextual Emergence of Physical Properties. Foundations of Physics, 2020, 50, 481-510. | 0.6 | 10 |

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| 91 | Tidal forces are gravitational waves. Classical and Quantum Gravity, 2021, 38, 085023. | 1.5 | 10 |
| 92 | Propagation of jump discontinuities in relativistic cosmology. Physical Review D, 2000, 62, . | 1.6 | 9 |
| 93 | Particle creation rate for dynamical black holes. European Physical Journal C, 2016, 76, 1. | 1.4 | 9 |
| 94 | Emergence of Time. Foundations of Physics, 2020, 50, 161-190. | 0.6 | 9 |
| 95 | Shear-free perturbations of Friedmann-Lemaître-Robertson-Walker universes. Physical Review D, 2011, 84, . | 1.6 | 8 |
| 96 | A note on infinities in eternal inflation. General Relativity and Gravitation, 2009, 41, 1475-1484. | 0.7 | 7 |
| 97 | The data-hypothesis relationship. Genome Biology, 2021, 22, 57. | 3.8 | 7 |
| 98 | Comment on â€~â€~Entropy and the second law: A pedagogical alternative,'' by Ralph Baierlein [Am. J. Ph (1), 15–26 (1994)]. American Journal of Physics, 1995, 63, 472-472. | ys, 62 0.3 | 6 |
| 99 | Editorial on the GRG special issue on dark energy. General Relativity and Gravitation, 2008, 40, 219-220. | 0.7 | 6 |
| 100 | Top-down causation and quantum physics. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 11661-11663. | 3.3 | 6 |
| 101 | The Standard Cosmological Model: Achievements and Issues. Foundations of Physics, 2018, 48, 1226-1245. | 0.6 | 6 |
| 102 | Transferring energy in general relativity. Classical and Quantum Gravity, 2018, 35, 165007. | 1.5 | 5 |
| 103 | Data bias. Genome Biology, 2021, 22, 59. | 3.8 | 5 |
| 104 | On horizons and the Cosmic Landscape. General Relativity and Gravitation, 2006, 38, 1209-1213. | 0.7 | 4 |
| 105 | Editorial note to: Pascual Jordan, Jürgen Ehlers and Wolfgang Kundt, Exact solutions of the field equations of the general theory of relativity. General Relativity and Gravitation, 2009, 41, 2179-2189. | 0.7 | 4 |
| 106 | Editorial note to: E. Lifshitz, On the gravitational stability of the expanding universe. General Relativity and Gravitation, 2017, 49, 1. | 0.7 | 4 |
| 107 | The myth of a purely rational life. Theology and Science, 2007, 5, 87-100. | 0.2 | 3 |
| 108 | Editorial note: The issue of plagiarism. General Relativity and Gravitation, 2007, 39, 1969-1970. | 0.7 | 3 |

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| 109 | Editorial note to: H. P. Robertson, Relativistic cosmology. General Relativity and Gravitation, 2012, 44, 2099-2114. | 0.7 | 2 |
| 110 | Revenge and forgiveness in the New South Africa. Behavioral and Brain Sciences, 2013, 36, 37-38. | 0.4 | 2 |
| 111 | Ricci time in the Lemaître–Tolman model and the block universe. General Relativity and Gravitation, 2015, 47, 1. | 0.7 | 2 |
| 112 | The Domain of Cosmology and the Testing of Cosmological Theories. , 0, , 3-39. | | 2 |
| 113 | Can Science Bridge the Is-Ought gap? A Response to Michael Shermer. Theology and Science, 2018, 16, 1-5. | 0.2 | 2 |
| 114 | A Mathematical Cosmologist Reflects on Deep Ethics: Reflections on Values, Ethics, and Morality. Theology and Science, 2020, 18, 175-189. | 0.2 | 2 |
| 115 | Teaching of special relativity. American Journal of Physics, 1994, 62, 775-775. | 0.3 | 1 |
| 116 | Cosmology in South Africa. Astrophysics and Space Science, 1995, 230, 237-262. | 0.5 | 1 |
| 117 | DYNAMICAL PROPERTIES OF COSMOLOGICAL SOLUTIONS. Journal of Hyperbolic Differential Equations, 2005, 02, 381-395. | 0.3 | 1 |
| 118 | Group classification of the characteristic initial value equations for a radiating axisymmetric, non-rotating, vacuum spacetime. Classical and Quantum Gravity, 2007, 24, 6007-6017. | 1.5 | 1 |
| 119 | Preface to the GRG special issue on quantum gravity. General Relativity and Gravitation, 2009, 41, 673-673. | 0.7 | 1 |
| 120 | Editorial note to: Jerome Kristian and Rainer K. Sachs, Observations in cosmology. General Relativity and Gravitation, 2011, 43, 331-336. | 0.7 | 1 |
| 121 | Almost Birkhoff theorem. , 2012, , . | | 1 |
| 122 | Celebrate the scientific hierarchy. Nature Physics, 2017, 13, 1034-1034. | 6.5 | 1 |
| 123 | Stephen William Hawking CH CBE. 8 January 1942—14 March 2018. Biographical Memoirs of Fellows of the Royal Society, 2019, 66, 267-308. | 0.1 | 1 |
| 124 | Neuroscience and literacy: an integrative view. Transactions of the Royal Society of South Africa, 2021, 76, 157-188. | 0.8 | 1 |
| 125 | Fundamental Issues and Problems of Cosmology. Issues in Agroecology, 2011, , 309-320. | 0.1 | 1 |
| 126 | Mixed bag of 10 big ideas. Physics World, 2003, 16, 40-41. | 0.0 | 1 |

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| 127 | Commentary on "New Project for a Scientific Psychology: General Scheme―by Mark Solms. Neuropsychoanalysis, 2020, 22, 53-56. | 0.1 | 1 |
| 128 | PRIORITIES IN SOUTH AFRICAN SCIENCE POLICY IN A CHANGING ECONOMIC AND POLITICAL CONTEXT. Transactions of the Royal Society of South Africa, 1993, 48, 351-373. | 0.8 | 0 |
| 129 | Confronting the meaning of racism. Ecquid Novi: African Journalism Studies, 2000, 21, 269-271. | 0.6 | Ο |
| 130 | THE STATE OF COSMOLOGY 2001: TWO VIEWS AND A MIDDLE WAY. , 2002, , . | | 0 |
| 131 | Maintaining the standard. Nature, 2002, 416, 132-133. | 13.7 | Ο |
| 132 | COMMENTS ON COSMOLOGY 2001., 2003, , . | | 0 |
| 133 | THE SPACE OF COSMOLOGICAL SPACE–TIMES. Journal of Hyperbolic Differential Equations, 2005, 02, 331-379. | 0.3 | Ο |
| 134 | Editorial: The GRG Journal. General Relativity and Gravitation, 2006, 38, 395-396. | 0.7 | 0 |
| 135 | Alternative explanations of "dark energy―in cosmology. , 2010, , . | | Ο |
| 136 | A New Dawn for Science in Africa. Science, 2012, 337, 889-889. | 6.0 | 0 |
| 137 | Lectures on cosmology. , 2014, , . | | Ο |
| 138 | The Foundations: Physics and Top-Down Causation. The Frontiers Collection, 2016, , 243-290. | 0.1 | 0 |
| 139 | Why Reductionism does not Work. , 2021, , 51-92. | | 0 |
| 140 | Physics on Edge. Inference, 2017, 3, . | 0.0 | 0 |
| 141 | Business as Usual. Inference, 2017, 3, . | 0.0 | 0 |
| 142 | On Testability in Science. Inference, 2017, 3, . | 0.0 | 0 |
| 143 | Constructing black hole entropy from gravitational collapse. , 2017, , . | | 0 |
| 144 | Non-Empirical But Scientific. Inference, 2017, 3, . | 0.0 | 0 |

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| # | Article | IF | CITATIONS |
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| 145 | Theorists Without a Theory. Inference, 2017, 3, . | 0.0 | Ο |
| 146 | On the Essence of Discovery. Inference, 2017, 3, . | 0.0 | 0 |
| 147 | An Interesting Scientific Question. Inference, 2017, 3, . | 0.0 | 0 |