

# Piotr Chruściel

## List of Publications by Year in descending order

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161  
papers

4,636  
citations

87888

38  
h-index

118850

62  
g-index

170  
all docs

170  
docs citations

170  
times ranked

1770  
citing authors

#	ARTICLE	IF	CITATIONS
1	Asymptotic flatness in higher dimensions. <i>Journal of Mathematical Physics</i> , 2022, 63, 032501.	1.1	1
2	Asymptotically flat Einstein-Maxwell fields are inheriting. <i>Communications in Analysis and Geometry</i> , 2021, 29, 579-627.	0.4	0
3	Energy of weak gravitational waves in spacetimes with a positive cosmological constant. <i>Physical Review D</i> , 2021, 103, .	4.7	7
4	The electromagnetic field in gravitational wave interferometers <sup>*</sup> . <i>Classical and Quantum Gravity</i> , 2021, 38, 215004.	4.0	1
5	On the canonical energy of weak gravitational fields with a cosmological constant $\varLambda$ in $\mathbb{R}^3$ . <i>European Physical Journal C</i> , 2021, 81, 696.	3.9	7
6	Remarks on the energy of asymptotically Horowitz-Myers metrics. <i>Physical Review D</i> , 2020, 101, .	4.7	6
7	Structure of the singular ring in Kerr-like metrics. <i>Physical Review D</i> , 2020, 101, .	4.7	3
8	Uniqueness and energy bounds for static AdS metrics. <i>Physical Review D</i> , 2020, 101, .	4.7	4
9	On linearised vacuum constraint equations on Einstein manifolds. <i>Classical and Quantum Gravity</i> , 2020, 37, 215012.	4.0	6
10	Black holes, gravitational waves and fundamental physics: a roadmap. <i>Classical and Quantum Gravity</i> , 2019, 36, 143001.	4.0	451
11	On the total mass of asymptotically hyperbolic manifolds. <i>Pure and Applied Mathematics Quarterly</i> , 2019, 15, 683-706.	0.4	2
12	On non-degeneracy of Riemannian Schwarzschild-anti-de Sitter metrics. <i>Advances in Theoretical and Mathematical Physics</i> , 2019, 23, 1215-1269.	0.6	2
13	Exotic hyperbolic gluings. <i>Journal of Differential Geometry</i> , 2018, 108, .	1.1	9
14	On the mass aspect function and positive energy theorems for asymptotically hyperbolic manifolds. <i>Classical and Quantum Gravity</i> , 2018, 35, 115015.	4.0	14
15	Towards a classification of vacuum near-horizons geometries. <i>Classical and Quantum Gravity</i> , 2018, 35, 015002.	4.0	7
16	The annoying null boundaries. <i>Journal of Physics: Conference Series</i> , 2018, 968, 012003.	0.4	6
17	Non-singular spacetimes with a negative cosmological constant: IV. Stationary black hole solutions with matter fields. <i>Classical and Quantum Gravity</i> , 2018, 35, 035007.	4.0	1
18	Weakly gravitating isotropic waveguides. <i>Classical and Quantum Gravity</i> , 2018, 35, 244001.	4.0	8

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19	Non-singular space-times with a negative cosmological constant: V. Boson stars. Letters in Mathematical Physics, 2018, 108, 2009-2030.	1.1	4
20	Weakly trapped surfaces in asymptotically de Sitter spacetimes. Classical and Quantum Gravity, 2018, 35, 135001.	4.0	3
21	Bifurcating Solutions of the Lichnerowicz Equation. Annales Henri Poincare, 2017, 18, 643-679.	1.7	9
22	Shielding linearized gravity. Physical Review D, 2017, 95, .	4.7	5
23	Gravitationally induced phase shift on a single photon. New Journal of Physics, 2017, 19, 033028.	2.9	16
24	Nonsingular spacetimes with a negative cosmological constant: Stationary solutions with matter fields. Physical Review D, 2017, 95, .	4.7	3
25	Energy in higher-dimensional spacetimes. Physical Review D, 2017, 96, .	4.7	5
26	Non-singular space-times with a negative cosmological constant: II. Static solutions of the Einstein-Maxwell equations. Letters in Mathematical Physics, 2017, 107, 1391-1407.	1.1	8
27	Long time existence from interior gluing. Classical and Quantum Gravity, 2017, 34, 145016.	4.0	3
28	Compact singularity-free Kerr-Newman-de Sitter instantons. Physical Review D, 2017, 95, .	4.7	2
29	The cosmological constant and the energy of gravitational radiation. Physical Review D, 2016, 93, .	4.7	24
30	On Differentiability of Volume Time Functions. Annales Henri Poincare, 2016, 17, 2801-2824.	1.7	16
31	The Euclidean quantisation of Kerr-Newman-de Sitter black holes. Journal of High Energy Physics, 2016, 1-37.	4.7	2
32	Vacuum spacetimes with controlled singularities and without symmetries. Physical Review D, 2015, 92, .	4.7	6
33	Hamiltonian dynamics in the space of asymptotically Kerr-de Sitter spacetimes. Physical Review D, 2015, 92, .	4.7	7
34	Characteristic Initial Data and Smoothness of Scri. I. Framework and Results. Annales Henri Poincare, 2015, 16, 2131-2162.	1.7	15
35	Initial Data Sets with Ends of Cylindrical Type: I. The Lichnerowicz Equation. Annales Henri Poincare, 2015, 16, 1231-1266.	1.7	11
36	THE EXISTENCE THEOREM FOR THE GENERAL RELATIVISTIC CAUCHY PROBLEM ON THE LIGHT-CONE. Forum of Mathematics, Sigma, 2014, 2, .	0.7	14

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37	Outer trapped surfaces are dense near MOTSs. <i>Classical and Quantum Gravity</i> , 2014, 31, 045013.	4.0	1
38	A2: Mathematical relativity and other progress in classical gravity theory – a session report. <i>General Relativity and Gravitation</i> , 2014, 46, 1.	2.0	0
39	The mass of light-cones. <i>Classical and Quantum Gravity</i> , 2014, 31, 102001.	4.0	6
40	On maximal globally hyperbolic vacuum space-times. <i>Journal of Fixed Point Theory and Applications</i> , 2013, 14, 325-353.	1.1	7
41	Solutions of the vacuum Einstein equations with initial data on past null infinity. <i>Classical and Quantum Gravity</i> , 2013, 30, 235037.	4.0	16
42	Hamiltonian mass of asymptotically Schwarzschild-de Sitter space-times. <i>Physical Review D</i> , 2013, 87, .	4.7	16
43	KIDs like cones. <i>Classical and Quantum Gravity</i> , 2013, 30, 235036.	4.0	8
44	Initial data sets with ends of cylindrical type: II. The vector constraint equation.. <i>Advances in Theoretical and Mathematical Physics</i> , 2013, 17, 829-865.	0.6	9
45	The many ways of the characteristic Cauchy problem. <i>Classical and Quantum Gravity</i> , 2012, 29, 145006.	4.0	32
46	On Lorentzian causality with continuous metrics. <i>Classical and Quantum Gravity</i> , 2012, 29, 145001.	4.0	48
47	Stationary Black Holes: Uniqueness and Beyond. <i>Living Reviews in Relativity</i> , 2012, 15, 7.	26.7	384
48	Space-time diagrammatics. <i>Physical Review D</i> , 2012, 86, .	4.7	20
49	On free general relativistic initial data on the light cone. <i>Journal of Geometry and Physics</i> , 2012, 62, 578-593.	1.4	11
50	Ghost points in inverse scattering constructions of stationary Einstein metrics. <i>General Relativity and Gravitation</i> , 2011, 43, 1615-1624.	2.0	2
51	The Cauchy Problem on a Characteristic Cone for the Einstein Equations in Arbitrary Dimensions. <i>Annales Henri Poincare</i> , 2011, 12, 419-482.	1.7	41
52	Construction of N-Body Initial Data Sets in General Relativity. <i>Communications in Mathematical Physics</i> , 2011, 304, 637-647.	2.2	23
53	Unique continuation and extensions of Killing vectors at boundaries for stationary vacuum space-times. <i>Journal of Geometry and Physics</i> , 2011, 61, 1249-1257.	1.4	7
54	A lower bound for the mass of axisymmetric connected black hole data sets. <i>Classical and Quantum Gravity</i> , 2011, 28, 125001.	4.0	5

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55	Existence of singularities in two-Kerr black holes. <i>Classical and Quantum Gravity</i> , 2011, 28, 245017.	4.0	20
56	SOLUTIONS OF QUASI-LINEAR WAVE EQUATIONS POLYHOMOGENEOUS AT NULL INFINITY IN HIGH DIMENSIONS. <i>Journal of Hyperbolic Differential Equations</i> , 2011, 08, 269-346.	0.5	6
57	Stable causality of the Pomeransky-Senkov black holes. <i>Advances in Theoretical and Mathematical Physics</i> , 2011, 15, 175-178.	0.6	2
58	Uniqueness of static black holes without analyticity. <i>Classical and Quantum Gravity</i> , 2010, 27, 152001.	4.0	5
59	Initial data for the relativistic gravitational $N$ -body problem. <i>Classical and Quantum Gravity</i> , 2010, 27, 222002.	4.0	1
60	Maximal analytic extensions of the Emparan-Reall black ring. <i>Journal of Physics: Conference Series</i> , 2010, 229, 012030.	0.4	0
61	On smoothness of black saturns. <i>Journal of High Energy Physics</i> , 2010, 2010, 1.	4.7	8
62	A Uniqueness Theorem for Degenerate Kerr-Newman Black Holes. <i>Annales Henri Poincare</i> , 2010, 11, 585-609.	1.7	23
63	Conformal boundary extensions of Lorentzian manifolds. <i>Journal of Differential Geometry</i> , 2010, 84, .	1.1	9
64	Mathematical general relativity: A sampler. <i>Bulletin of the American Mathematical Society</i> , 2010, 47, 567-567.	1.5	50
65	On the global structure of the Pomeransky-Senkov black holes. <i>Advances in Theoretical and Mathematical Physics</i> , 2010, 14, 1779-1856.	0.6	6
66	Maximal analytic extensions of the Emparan-Reall black ring. <i>Journal of Differential Geometry</i> , 2010, 85, .	1.1	4
67	Mathematical Aspects of General Relativity. <i>Oberwolfach Reports</i> , 2010, 6, 2585-2646.	0.0	0
68	EINSTEIN CONSTRAINTS ON A CHARACTERISTIC CONE. , 2010, , .		0
69	On higher dimensional black holes with Abelian isometry group. <i>Journal of Mathematical Physics</i> , 2009, 50, 052501.	1.1	16
70	The light-cone theorem. <i>Classical and Quantum Gravity</i> , 2009, 26, 135011.	4.0	15
71	Mass, angular-momentum and charge inequalities for axisymmetric initial data. <i>Classical and Quantum Gravity</i> , 2009, 26, 235013.	4.0	31
72	On Mason's Rigidity Theorem. <i>Communications in Mathematical Physics</i> , 2009, 285, 1-29.	2.2	2

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73	Topological Censorship for Kaluza-Klein Space-Times. <i>Annales Henri Poincare</i> , 2009, 10, 893-912.	1.7	34
74	A property of light-cones in Einstein's gravity. <i>Comptes Rendus Mathematique</i> , 2009, 347, 971-977.	0.3	1
75	An angular momentum bound at null infinity. <i>Advances in Theoretical and Mathematical Physics</i> , 2009, 13, 1317-1334.	0.6	2
76	Gluing constructions for asymptotically hyperbolic manifolds with constant scalar curvature. <i>Communications in Analysis and Geometry</i> , 2009, 17, 343-381.	0.4	22
77	Singular Yamabe Metrics and Initial Data with Exactly Kottler-Schwarzschild-de Sitter Ends. <i>Annales Henri Poincare</i> , 2008, 9, 639-654.	1.7	18
78	Mass and angular-momentum inequalities for axi-symmetric initial data sets I. Positivity of mass. <i>Annals of Physics</i> , 2008, 323, 2566-2590.	2.8	44
79	Mass and angular-momentum inequalities for axi-symmetric initial data sets. II. Angular momentum. <i>Annals of Physics</i> , 2008, 323, 2591-2613.	2.8	45
80	The asymptotics of stationary electro-vacuum metrics in odd spacetime dimensions. <i>Classical and Quantum Gravity</i> , 2007, 24, 867-874.	4.0	6
81	The Classification of Static Electro-Vacuum Space-Times Containing an Asymptotically Flat Spacelike Hypersurface with Compact Interior. <i>Communications in Mathematical Physics</i> , 2007, 271, 577-589.	2.2	35
82	Non-Singular, Vacuum, Stationary Space-Times with a Negative Cosmological Constant. <i>Annales Henri Poincare</i> , 2007, 8, 219-239.	1.7	12
83	Killing vectors in asymptotically flat space-times. II. Asymptotically translational Killing vectors and the rigid positive energy theorem in higher dimensions. <i>Journal of Mathematical Physics</i> , 2006, 47, 022502.	1.1	22
84	On Israel-Wilson-Perjes black holes. <i>Classical and Quantum Gravity</i> , 2006, 23, 2519-2540.	4.0	33
85	On non-existence of static vacuum black holes with degenerate components of the event horizon. <i>Classical and Quantum Gravity</i> , 2006, 23, 549-554.	4.0	60
86	The Ernst equation and ergosurfaces. <i>Classical and Quantum Gravity</i> , 2006, 23, 4399-4414.	4.0	6
87	Rigid upper bounds for the angular momentum and centre of mass of non-singular asymptotically anti-de Sitter space-times. <i>Journal of High Energy Physics</i> , 2006, 2006, 084-084.	4.7	28
88	Global solutions of the Einstein-Maxwell equations in higher dimensions. <i>Classical and Quantum Gravity</i> , 2006, 23, 7383-7394.	4.0	23
89	POLYHOMOGENEOUS SOLUTIONS OF NONLINEAR WAVE EQUATIONS WITHOUT CORNER CONDITIONS. <i>Journal of Hyperbolic Differential Equations</i> , 2006, 03, 81-141.	0.5	8
90	A Brief Review of Initial Data Engineering. , 2006, , .		0

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91	Initial Data Engineering. Communications in Mathematical Physics, 2005, 257, 29-42.	2.2	50
92	Asymptotically Simple Solutions of the Vacuum Einstein Equations in Even Dimensions. Communications in Mathematical Physics, 2005, 260, 557-577.	2.2	28
93	KIDs are Non-Generic. Annales Henri Poincare, 2005, 6, 155-194.	1.7	50
94	Some potentials for the curvature tensor on three-dimensional manifolds. General Relativity and Gravitation, 2005, 37, 891-905.	2.0	2
95	Boundary value problems for Dirac-type equations. Journal Fur Die Reine Und Angewandte Mathematik, 2005, 2005, 13-73.	0.9	55
96	RECENT RESULTS IN MATHEMATICAL RELATIVITY. , 2005, , .		1
97	BLACK HOLES " AN INTRODUCTION. , 2005, , 93-123.		0
98	Radiation fields. Bulletin De La Societe Mathematique De France, 2005, 133, 1-72.	0.2	5
99	Boundary regularity of conformally compact Einstein metrics. Journal of Differential Geometry, 2005, 69, .	1.1	57
100	A poor man's positive energy theorem: II. Null geodesics. Classical and Quantum Gravity, 2004, 21, 4399-4415.	4.0	5
101	Cauchy horizons in Gowdy spacetimes. Classical and Quantum Gravity, 2004, 21, S153-S169.	4.0	12
102	A poor man's positive energy theorem. Classical and Quantum Gravity, 2004, 21, L59-L63.	4.0	10
103	Gluing Initial Data Sets for General Relativity. Physical Review Letters, 2004, 93, 081101.	7.8	21
104	On the dynamics of Gowdy space-times. Communications on Pure and Applied Mathematics, 2004, 57, 1015-1074.	3.1	11
105	Manifold structures for sets of solutions of the general relativistic constraint equations. Journal of Geometry and Physics, 2004, 51, 442-472.	1.4	9
106	The Penrose Inequality. , 2004, , 39-70.		26
107	The Trautman-Bondi mass of hyperboloidal initial data sets. Advances in Theoretical and Mathematical Physics, 2004, 8, 83-139.	0.6	32
108	On "many-black-hole" vacuum spacetimes. Classical and Quantum Gravity, 2003, 20, 729-754.	4.0	16

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109	The mass of asymptotically hyperbolic Riemannian manifolds. Pacific Journal of Mathematics, 2003, 212, 231-264.	0.5	138
110	On mapping properties of the general relativistic constraints operator in weighted function spaces, with applications. Mémoires De La Société Mathématique De France, 2003, 1, 1-103.	0.4	39
111	Non-trivial, static, geodesically complete, vacuum space-times with a negative cosmological constant. Journal of High Energy Physics, 2002, 2002, 063-063.	4.7	46
112	Existence of non-trivial, vacuum, asymptotically simple spacetimes. Classical and Quantum Gravity, 2002, 19, L71-L79.	4.0	91
113	The Hamiltonian Mass and Asymptotically Anti-de Sitter Space-times. Fortschritte Der Physik, 2002, 50, 624-629.	4.4	0
114	On fine differentiability properties of horizons and applications to Riemannian geometry. Journal of Geometry and Physics, 2002, 41, 1-12.	1.4	16
115	Editor's Note: Lectures on General Relativity by Andrzej Trautman. General Relativity and Gravitation, 2002, 34, 715-719.	2.0	2
116	Regularity of Horizons and the Area Theorem. Annales Henri Poincare, 2001, 2, 109-178.	1.7	71
117	The Hamiltonian mass of asymptotically anti-de Sitter space-times. Classical and Quantum Gravity, 2001, 18, L61-L68.	4.0	15
118	Towards the classification of static vacuum spacetimes with negative cosmological constant. Journal of Mathematical Physics, 2001, 42, 1779-1817.	1.1	61
119	The mass of spacelike hypersurfaces in asymptotically anti-de Sitter space-times. Advances in Theoretical and Mathematical Physics, 2001, 5, 697-754.	0.6	42
120	Towards a classification of static electrovacuum spacetimes containing an asymptotically flat spacelike hypersurface with compact interior. Classical and Quantum Gravity, 1999, 16, 689-704.	4.0	31
121	The classification of static vacuum spacetimes containing an asymptotically flat spacelike hypersurface with compact interior. Classical and Quantum Gravity, 1999, 16, 661-687.	4.0	53
122	Horizons Non-Differentiable on a Dense Set. Communications in Mathematical Physics, 1998, 193, 449-470.	2.2	34
123	A remark on differentiability of Cauchy horizons. Classical and Quantum Gravity, 1998, 15, 3845-3848.	4.0	12
124	Uniqueness of the Trautman-Bondi mass. Physical Review D, 1998, 58, .	4.7	27
125	Uniqueness of Scalar Field Energy and Gravitational Energy in the Radiating Regime. Physical Review Letters, 1998, 80, 5052-5055.	7.8	4
126	Killing initial data. Classical and Quantum Gravity, 1997, 14, A83-A92.	4.0	60



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127	The Isometry Groups of Asymptotically Flat, Asymptotically Empty Space-Times with Timelike ADM Four-Momentum. <i>Communications in Mathematical Physics</i> , 1997, 188, 585-597.	2.2	11
128	On Rigidity of Analytic Black Holes. <i>Communications in Mathematical Physics</i> , 1997, 189, 1-7.	2.2	35
129	Global Foliations of Vacuum Spacetimes with $T^2$ -Isometry. <i>Annals of Physics</i> , 1997, 260, 117-148.	2.8	55
130	Killing vectors in asymptotically flat space-times. I. Asymptotically translational Killing vectors and the rigid positive energy theorem. <i>Journal of Mathematical Physics</i> , 1996, 37, 1939-1961.	1.1	58
131	On "Asymptotically Flat" Space-Times with $G_2$ -Invariant Cauchy Surfaces. <i>Annals of Physics</i> , 1995, 237, 322-354.	2.8	69
132	Strong Cosmic Censorship in Vacuum Space-Times with Compact, Locally Homogeneous Cauchy Surfaces. <i>Annals of Physics</i> , 1995, 242, 349-385.	2.8	29
133	All electrovacuum Majumdar-Papapetrou spacetimes with non-singular black holes. <i>Classical and Quantum Gravity</i> , 1995, 12, L17-L23.	4.0	21
134	Gravitational waves in general relativity XIV. Bondi expansions and the $\tilde{\text{polyhomogeneity}}$ of $\hat{a}_{\infty}$ . <i>Philosophical Transactions of the Royal Society: Physical and Engineering Sciences</i> , 1995, 350, 113-141.	1.0	71
135	On the topology of stationary black holes. <i>Classical and Quantum Gravity</i> , 1994, 11, L147-L152.	4.0	91
136	Maximal hypersurfaces in stationary asymptotically flat spacetimes. <i>Communications in Mathematical Physics</i> , 1994, 163, 561-604.	2.2	64
137	On $\tilde{\text{hyperboloidal}}$ -Cauchy data for vacuum einstein equations and obstructions to smoothness of $\mathcal{S}_{\text{cri}}$ . <i>Communications in Mathematical Physics</i> , 1994, 161, 533-568.	2.2	60
138	On the Dynamics of Generators of Cauchy Horizons. <i>NATO ASI Series Series B: Physics</i> , 1994, , 113-125.	0.2	4
139	On completeness of orbits of Killing vector fields. <i>Classical and Quantum Gravity</i> , 1993, 10, 2091-2101.	4.0	25
140	Hyperboloidal Cauchy data for vacuum Einstein equations and obstructions to smoothness of null infinity. <i>Physical Review Letters</i> , 1993, 70, 2829-2832.	7.8	39
141	Nonisometric vacuum extensions of vacuum maximal globally hyperbolic spacetimes. <i>Physical Review D</i> , 1993, 48, 1616-1628.	4.7	40
142	On the global Structure of Robinson-Trautman space-times. <i>Proceedings of the Royal Society A</i> , 1992, 436, 299-316.	0.9	68
143	On the regularity of solutions to the Yamabe equation and the existence of smooth hyperboloidal initial data for Einstein's field equations. <i>Communications in Mathematical Physics</i> , 1992, 149, 587-612.	2.2	158
144	Non-smoothness of event horizons of Robinson-Trautman black holes. <i>Communications in Mathematical Physics</i> , 1992, 147, 137-162.	2.2	45

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145	Semi-global existence and convergence of solutions of the Robinson-Trautman (2-dimensional Calabi) equation. <i>Communications in Mathematical Physics</i> , 1991, 137, 289-313.	2.2	104
146	On maximal surfaces in asymptotically flat space-times. <i>Communications in Mathematical Physics</i> , 1990, 130, 95-109.	2.2	26
147	On space-times with $U(1) \times U(1)$ symmetric compact Cauchy surfaces. <i>Annals of Physics</i> , 1990, 202, 100-150.	2.8	102
148	Strong cosmic censorship in polarised Gowdy spacetimes. <i>Classical and Quantum Gravity</i> , 1990, 7, 1671-1680.	4.0	92
149	Asymptotic estimates in Weighted Hölder spaces for a class of elliptic scale-covariant second order operators. <i>Annales De La Faculté Des Sciences De Toulouse</i> , 1990, 11, 21-37.	0.3	10
150	On the structure of spatial infinity. I. The Geroch structure. <i>Journal of Mathematical Physics</i> , 1989, 30, 2090-2093.	1.1	6
151	On the structure of spatial infinity. II. Geodesically regular Ashtekar-Hansen structures. <i>Journal of Mathematical Physics</i> , 1989, 30, 2094-2100.	1.1	12
152	On the invariant mass conjecture in general relativity. <i>Communications in Mathematical Physics</i> , 1988, 120, 233-248.	2.2	43
153	On angular momentum at spatial infinity. <i>Classical and Quantum Gravity</i> , 1987, 4, L205-L210.	4.0	10
154	Some global charges in classical Yang-Mills theory. <i>Physical Review D</i> , 1987, 36, 1874-1881.	4.7	28
155	A remark on the positive-energy theorem. <i>Classical and Quantum Gravity</i> , 1987, 4, 1049-1049.	4.0	2
156	A remark on the positive-energy theorem. <i>Classical and Quantum Gravity</i> , 1986, 3, L115-L121.	4.0	43
157	Boundary Conditions at Spatial Infinity. , 1986, , 49-59.		47
158	The isometry group and killing spinors for the pp wave space-time in $D = 11$ supergravity. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1984, 149, 107-110.	4.1	25
159	Positive mass theorems for asymptotically hyperbolic Riemannian manifolds with boundary. <i>Classical and Quantum Gravity</i> , 0, , .	4.0	4
160	Stationary Black Holes: Uniqueness and Beyond. , 0, .		1
161	On the characteristic initial value problem for nonlinear symmetric hyperbolic systems, including Einstein equations. <i>Dissertationes Mathematicae</i> , 0, , 1-72.	1.0	5